

User Manual

Parking Ticker Dispenser

Date: December 2021

Doc Version: 1.0

English

Thank you for choosing our product. Please read the instructions carefully before operation. Follow these instructions to ensure that the product is functioning properly. The images shown in this manual are for illustrative purposes only.



For further details, please visit our Company's website

www.zkteco.com.

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If there is any issue related to the product, please contact us.

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About the Company

ZKTeco is one of the world's largest manufacturers of RFID and Biometric (Fingerprint, Facial, Finger-vein) readers. Product offerings include Access Control readers and panels, Near & Far-range Facial Recognition Cameras, Elevator/floor access controllers, Turnstiles, License Plate Recognition (LPR) gate controllers and Consumer products including battery-operated fingerprint and face-reader Door Locks. Our security solutions are multi-lingual and localized in over 18 different languages. At the ZKTeco state-of-the-art 700,000 square foot ISO9001-certified manufacturing facility, we control manufacturing, product design, component assembly, and logistics/shipping, all under one roof.

The founders of ZKTeco have been determined for independent research and development of biometric verification procedures and the productization of biometric verification SDK, which was initially widely applied in PC security and identity authentication fields. With the continuous enhancement of the development and plenty of market applications, the team has gradually constructed an identity authentication ecosystem and smart security ecosystem, which are based on biometric verification techniques. With years of experience in the industrialization of biometric verifications, ZKTeco was officially established in 2007 and now has been one of the globally leading enterprises in the biometric verification industry owning various patents and being selected as the National High-tech Enterprise for 6 consecutive years. Its products are protected by intellectual property rights.

About the Manual

This manual introduces the operations of **Parking Ticker Dispenser**.

All figures displayed are for illustration purposes only. Figures in this manual may not be exactly consistent with the actual products.

Features and parameters with ★ are not available in all devices.

Document Conventions

Conventions used in this manual are listed below:

GUI Conventions:

For Software	
Convention	Description
Bold font	Used to identify software interface names e.g., OK , Confirm , Cancel .
>	Multi-level menus are separated by these brackets. For example, File > Create > Folder.
For Device	
Convention	Description
<>	Button or key names for devices. For example, press <OK>.
[]	Window names, menu items, data table, and field names are inside square brackets. For example, pop up the [New User] window.
/	Multi-level menus are separated by forwarding slashes. For example, [File/Create/Folder].

Symbols






Convention	Description
	This represents a note that needs to pay more attention to.
	The general information which helps in performing the operations faster.
	The information which is significant.
	Care taken to avoid danger or mistakes.
	The statement or event that warns of something or that serves as a cautionary example.

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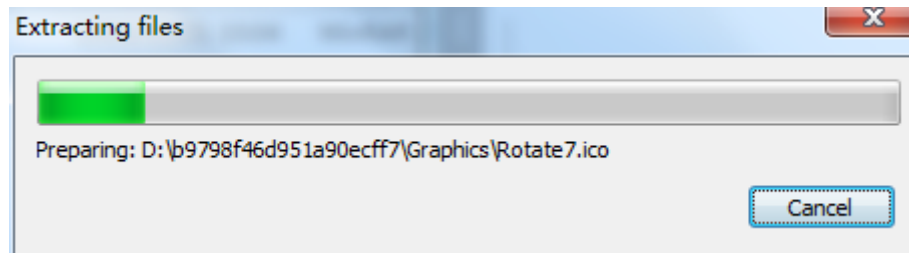
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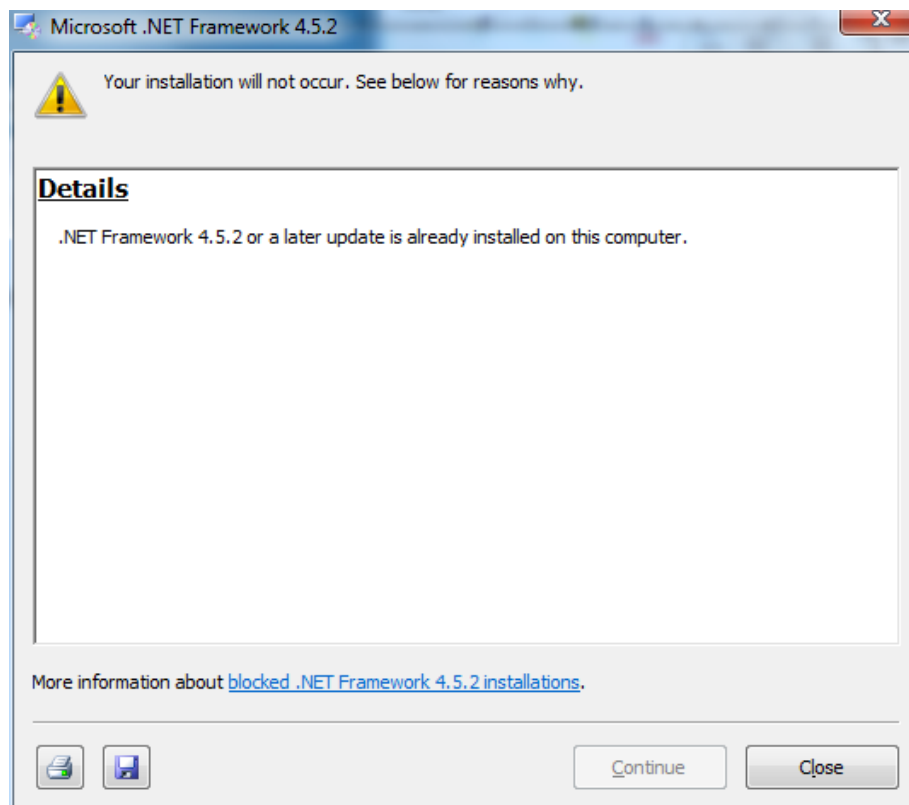
1 Installation & Uninstallation

1.1 Installation

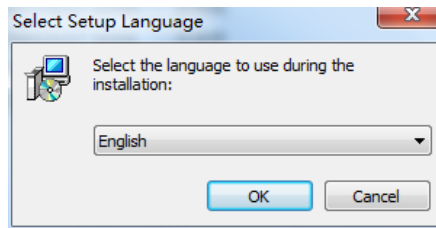
1. First, extract the software package [**ZKParking Setup Install.rar**].
2. The ZKParking system runs in the Net Framework 4.5 environment. Find the [**Microsoft. NET Framework 4.5.2-x86-x64.exe**] file in the [**tools**] folder and double-click it to start **installation**.



If this file has been installed on your computer, you will see the message shown below:



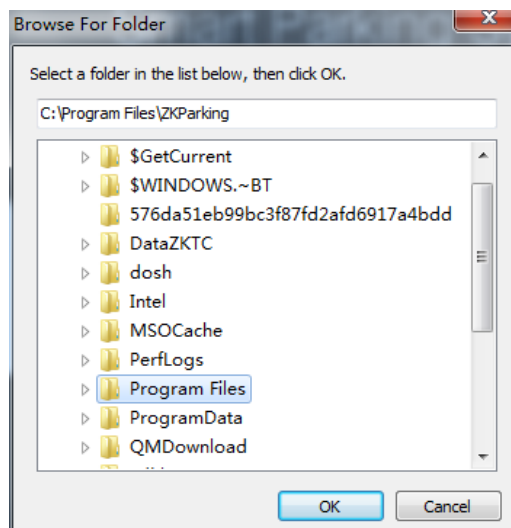
3. Find the [**Setup.exe**] file in the installation package and start installation.
 - 1) Select a setup language.



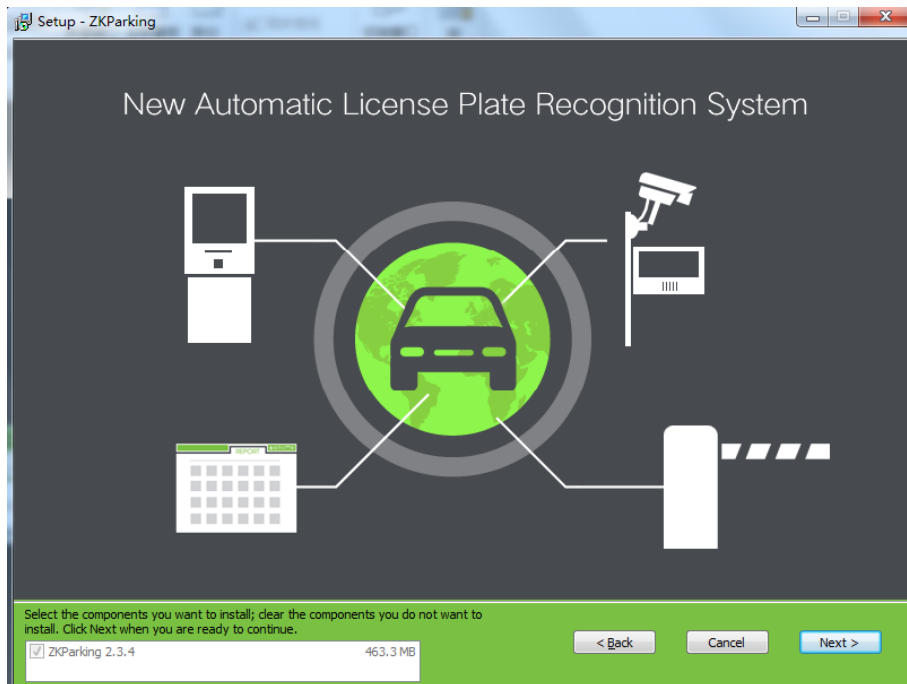
- 2) Click [**OK**].



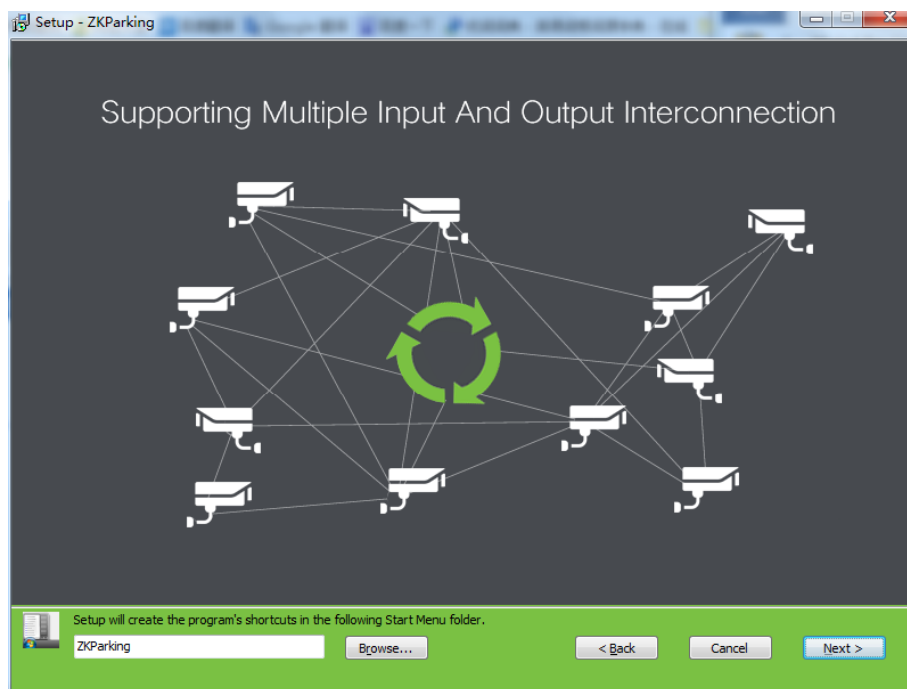
- 3) Click **Browse...** to select a folder.



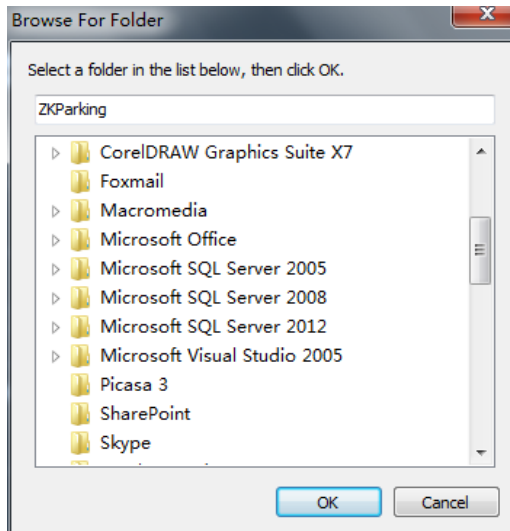
- 4) And then, click **[Next]**.



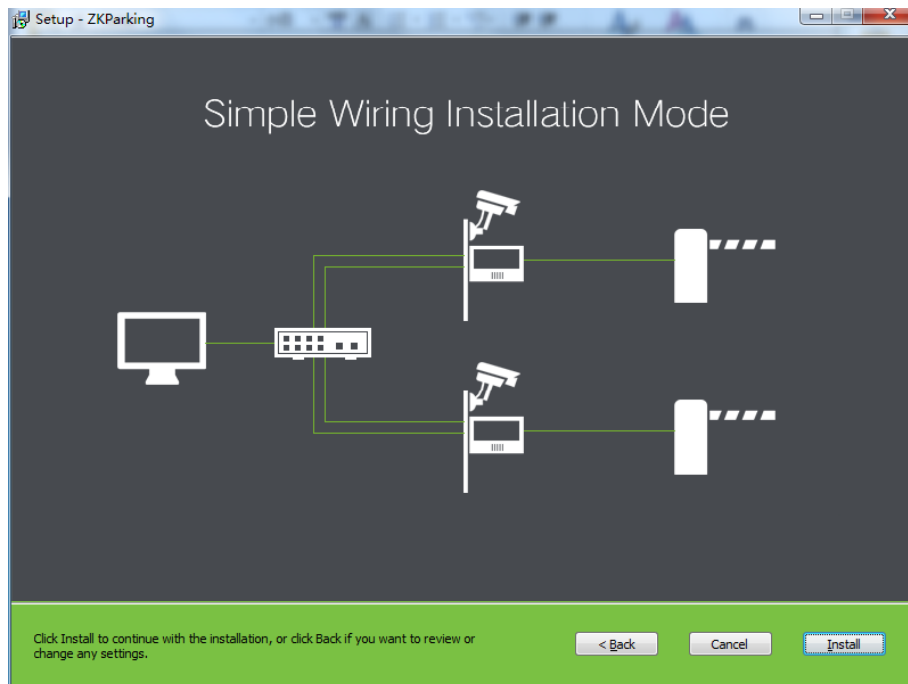
- 5) Click **[Next]**.



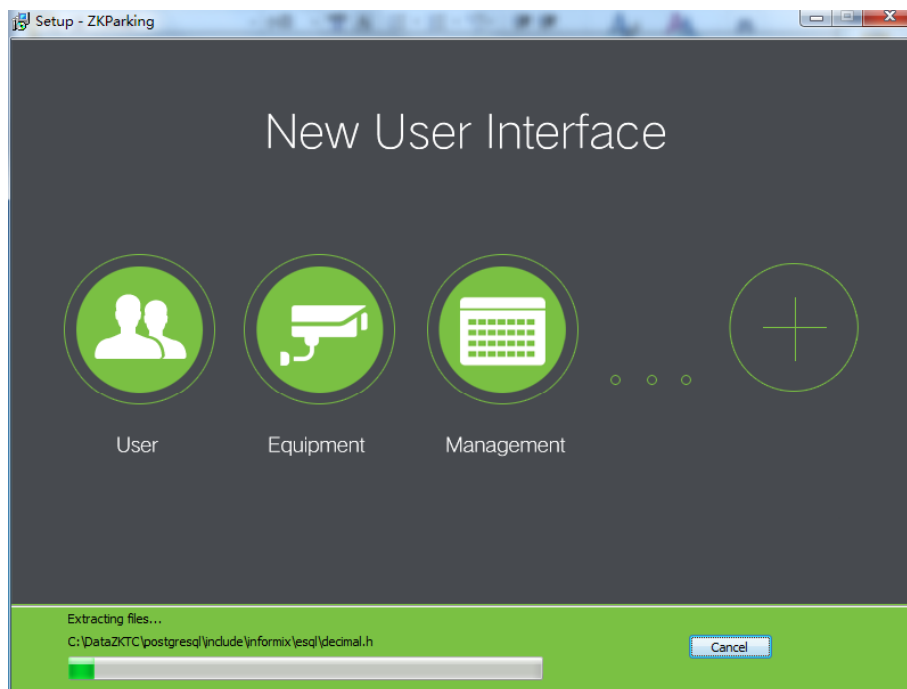
- 6) Click **Browse...** to select a folder, Setup will create the program's shortcuts in the following Start Menu folder click **[OK]**.



7) Click [**Next**].



8) Click [**Install**] to continue with the installation or click [**Back**] if you want to review or change any settings. If a firewall is configured, click [**Allow the operation**] in the displayed message box.



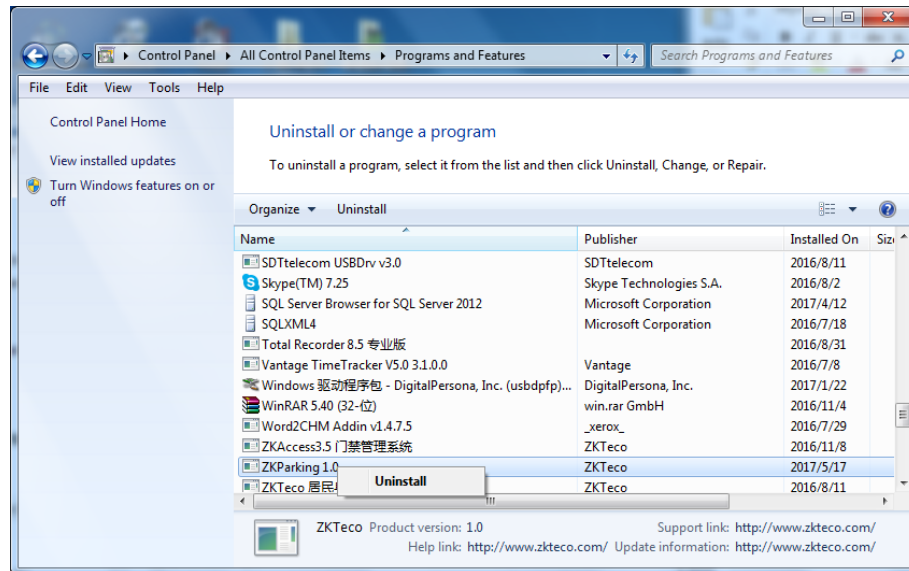
9) Click [**Finish**].



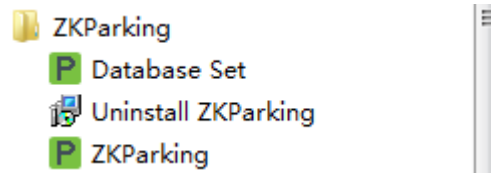
1.2 Uninstallation

If you want to uninstall ZKParking, there are two methods:

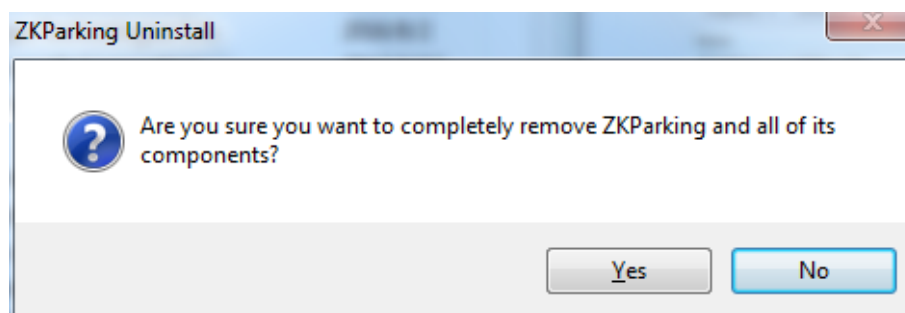
1. Click [Start] → [Control Panel] → [Uninstall a program], right-click [ZKParking 2.3.4], then click [Uninstall].



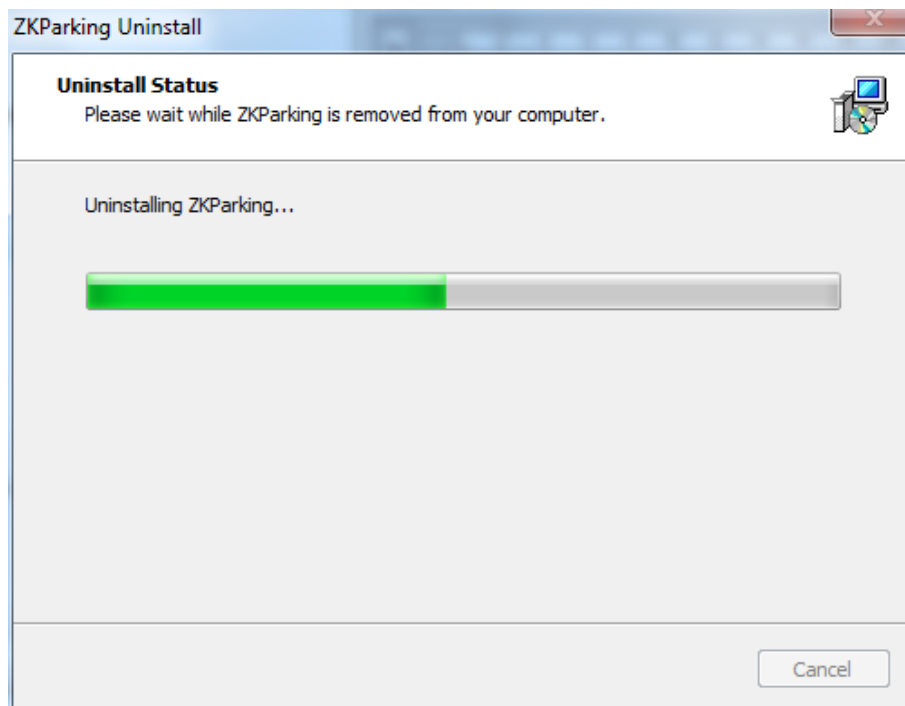
2. Click [Start] → [All Programs] → [ZKParking] → [Uninstall ZKParking].



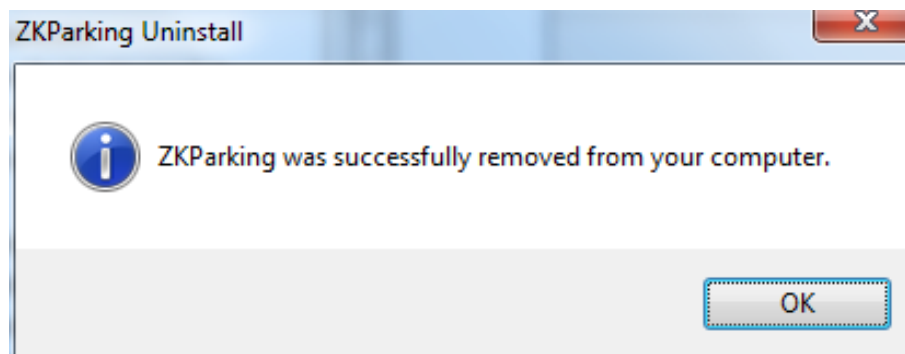
In both methods, the following message box appears:



3. Click [Yes] to confirm the uninstallation operation or [No] to cancel the operation.



When the uninstallation is completed, the following prompt will appear:

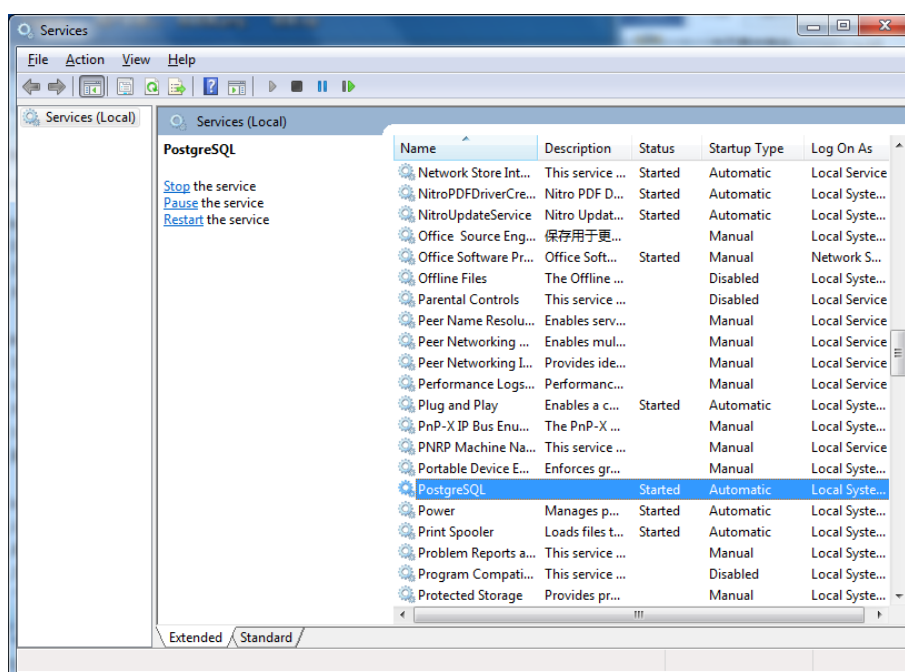


Note: If any software errors occur, you do not need to uninstall the software. Instead, you can directly install it again.

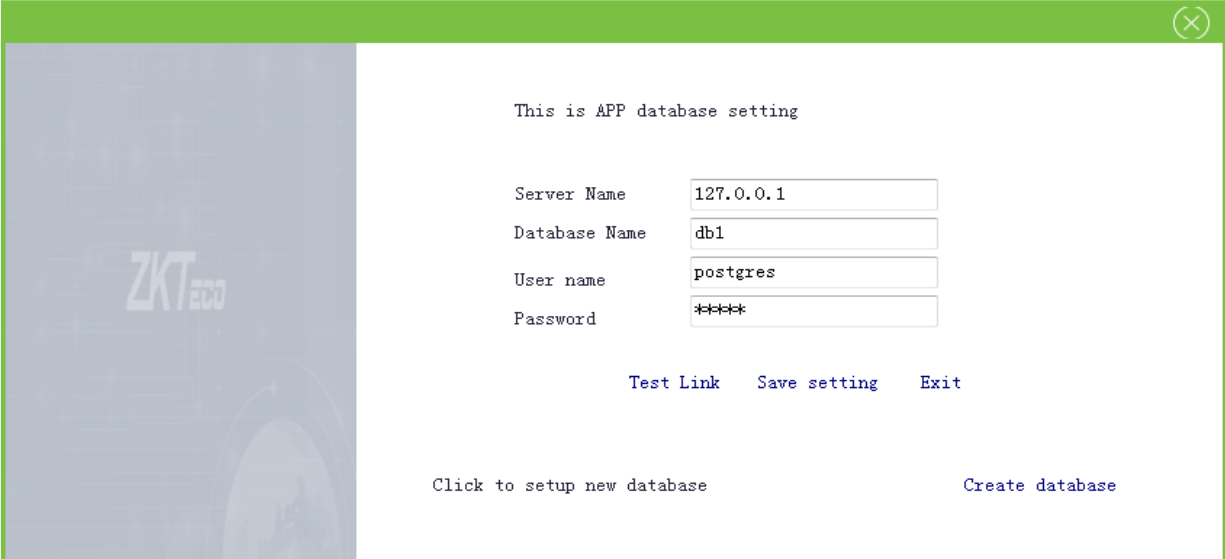
2 Database Settings

After installation, you need to connect to the database to log in to the software. This chapter introduces the creation and connection of the database.

This software is compatible only with the PostgreSQL database. The database environment is automatically installed, and the PostgreSQL database service is installed in the OS services. (You can click **[Start]** → **[Control Panel]** → **[All Control Panel Items]** → **[Administrative Tools]** → **[Services]**, to check whether the PostgreSQL database service is generated. If not, right-click it and choose **[Start]**). If you cannot find the PostSQL in the **[services]**, open the file C:\DataZKTC\postgresql\startserver(Run as Administrator).



Database Setting: Click **[Start]** → **[All Programs]** → **[ZKParking]** → **[Database Set]** to open the database setup interface:



This is APP database setting

Server Name

Database Name

User name

Password

[Test Link](#) [Save setting](#) [Exit](#)

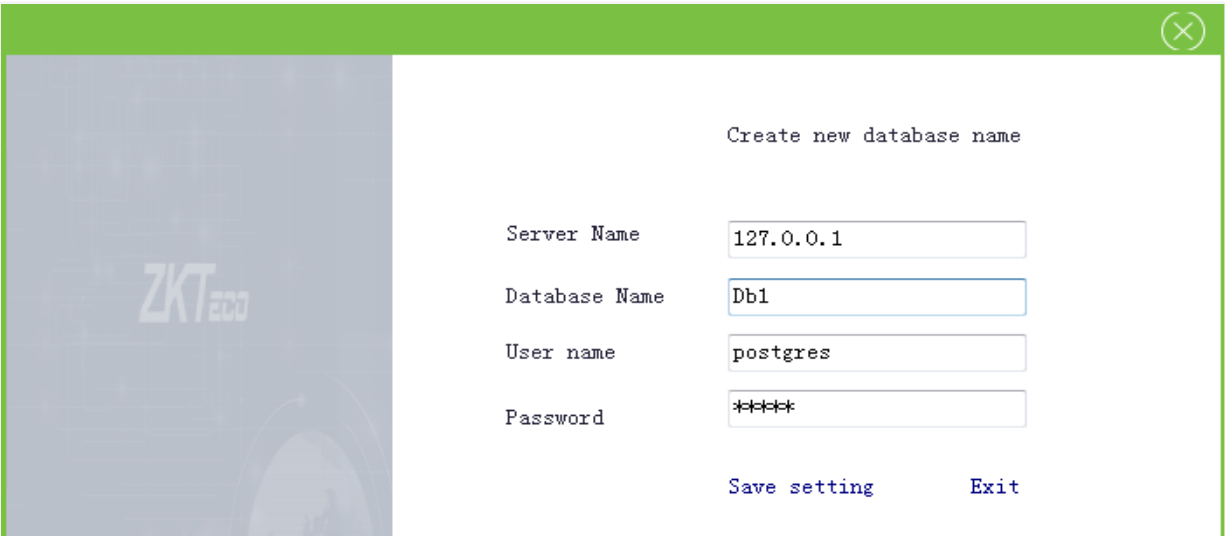
[Click to setup new database](#) [Create database](#)

- **Server Name:** Name of the server, that is, IP address or name of the computer where the database is installed. If the database and software are installed on the same computer, the IP address 127.0.0.1 can be used as the server name.
- **Database Name:** The initial database name is postgres.
- **Username:** The default username is postgres.
- **Password:** The default password is sa123. The port 5432 is used.

Note: If the database environment already exists in the OS, initialization is not performed.

2.1 Create a New Database

On the database setting interface, click [**Create database**]:



Create new database name

Server Name

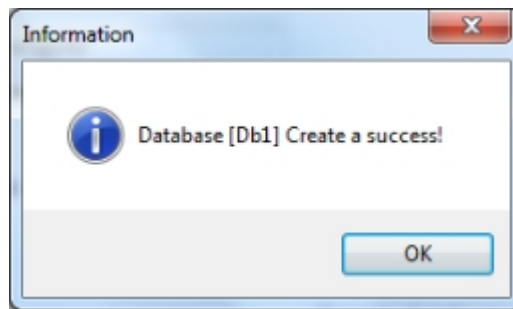
Database Name

User name

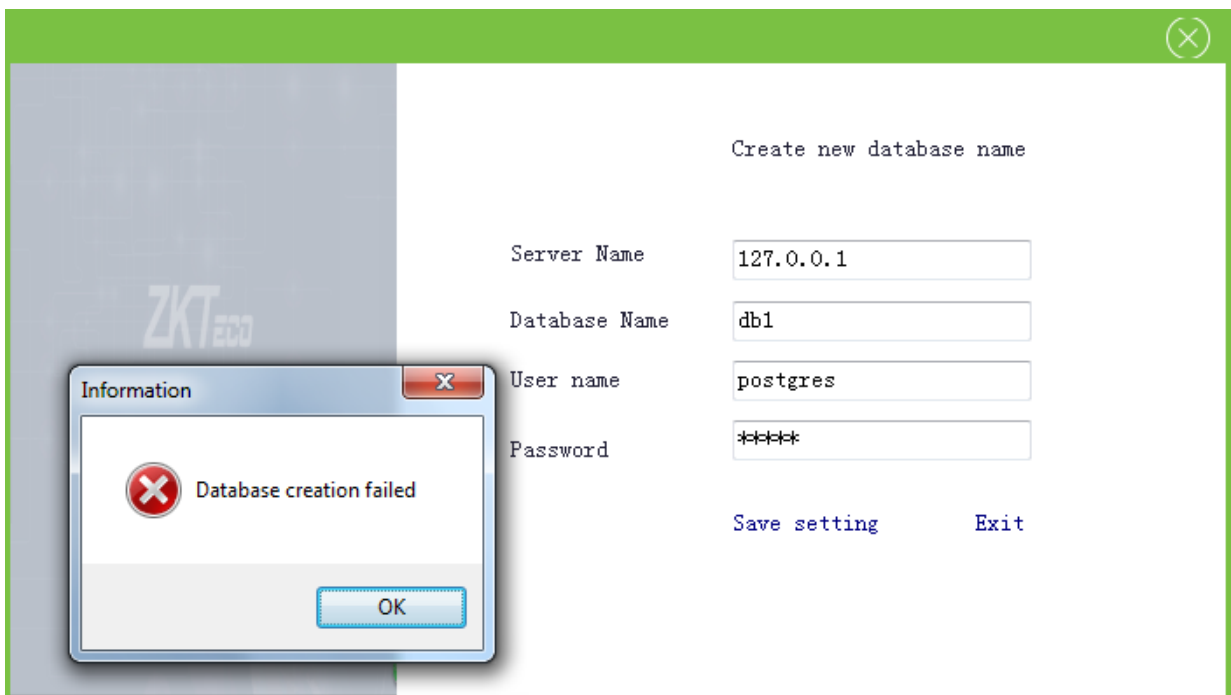
Password

[Save setting](#) [Exit](#)

Enter the server name, database name, username and password, then click [**Save setting**].

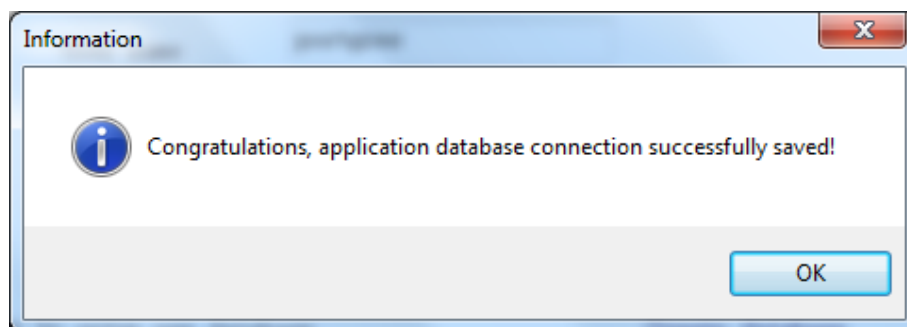


A database cannot be created repeatedly. That is, creating a database that already exists will fail.



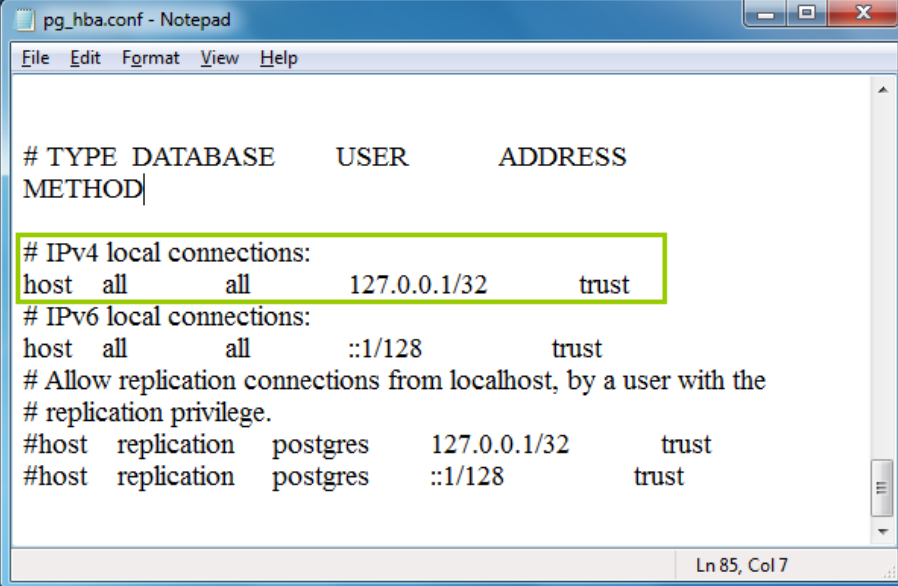
2.2 Database Connection

On the database setting interface, enter the server name, database name, username and password, then click [**Test Link**] to test whether the current database connection is normal. After connection success, click [**Save setting**] to apply the current configuration to the software.



To remotely connect to the database, perform setting as follows:

1. Open the pg_hba.conf file in C:\DataZKTC\postgresql\data. In the configuration file, modify the access IP network segment, as shown in the figure below: (To ensure that all IP addresses on the entire network segment 192.168.100.* are accessible, add [host all 192.168.100.0/24 trust]).



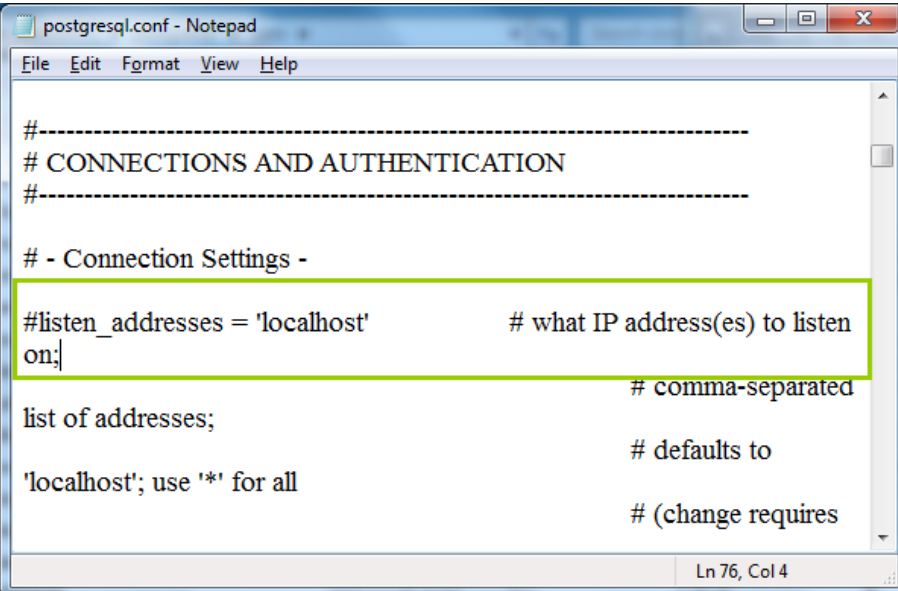
```
pg_hba.conf - Notepad
File Edit Format View Help

# TYPE DATABASE USER ADDRESS
METHOD

# IPv4 local connections:
host all all 127.0.0.1/32 trust
# IPv6 local connections:
host all all ::1/128 trust
# Allow replication connections from localhost, by a user with the
# replication privilege.
#host replication postgres 127.0.0.1/32 trust
#host replication postgres ::1/128 trust

Ln 85, Col 7
```

2. Open the postgresql.conf file in C:\DataZKTC\postgresql\data. In the configuration file, modify the listening address to "*", as shown in the figure below:



```
postgresql.conf - Notepad
File Edit Format View Help

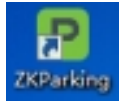
#-----
# CONNECTIONS AND AUTHENTICATION
#-----

# - Connection Settings -

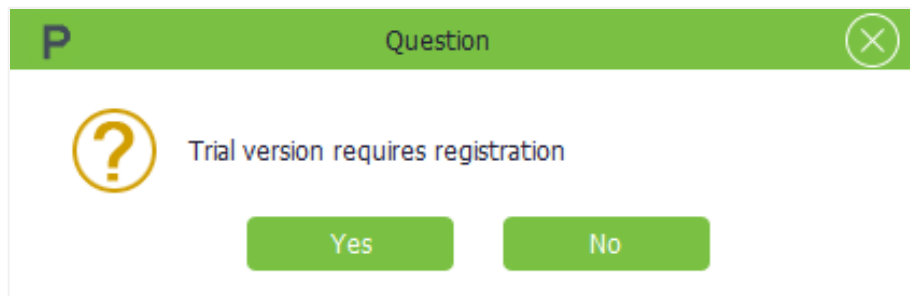
#listen_addresses = 'localhost' # what IP address(es) to listen
on;
# comma-separated
list of addresses;
# defaults to
'localhost'; use '*' for all
# (change requires

Ln 76, Col 4
```

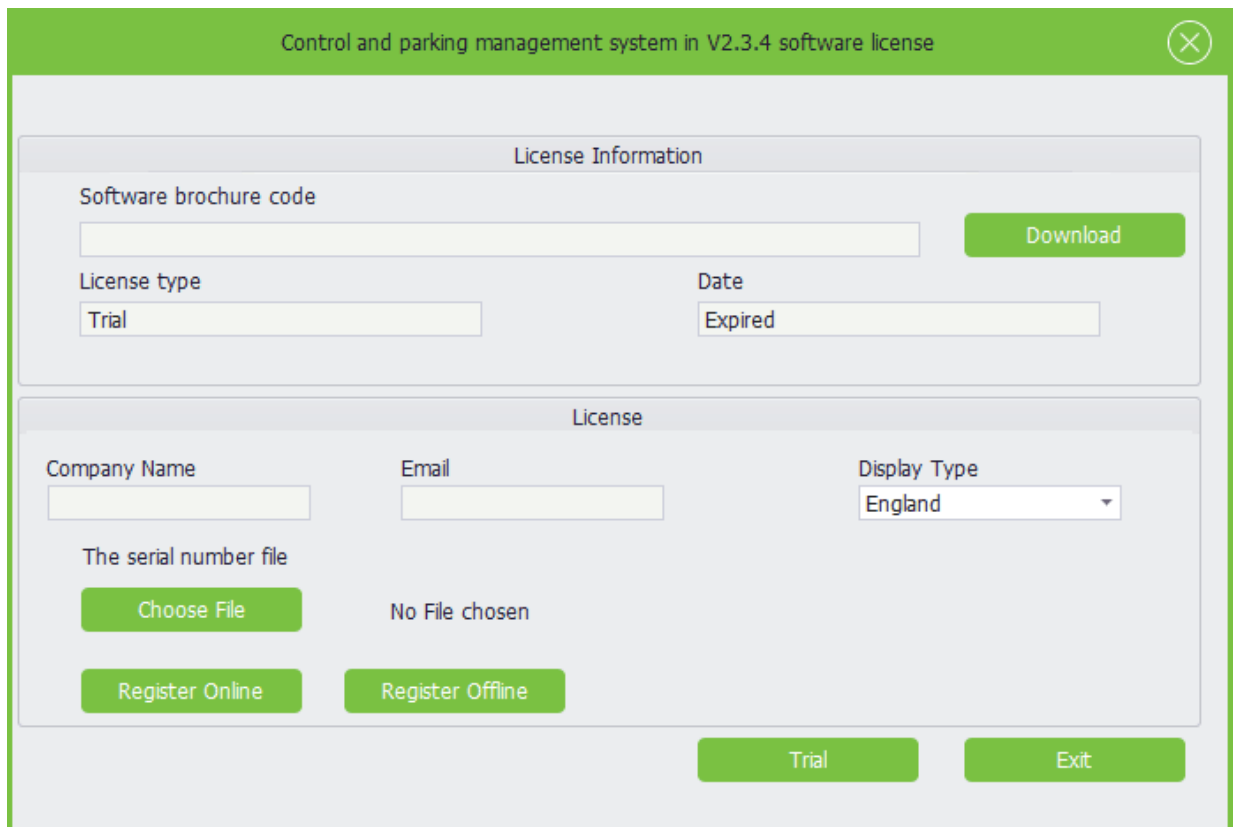
3 Login



Double-click the shortcut on the desktop. If you use the software for the first time, the software requires registration, as shown in the figure below:



Click **[Yes]** to access the license information interface or **[No]** to cancel the operation.



Registration you can choose to register online or register offline.

Register Online

1. Click **Choose File** select the SN.xml file, and then fill in the company name and email address, choose the display type on the License information interface.

Control and parking management system in V2.3.4 software license

License Information

Software brochure code
BC1A54-657A60-06AC1B-9B43CE-502E61-677924-51DF63 **Download**

License type: Trial Date: Expired

License

Company Name: ZK Email: Abc@zkteco.com Display Type: England

The serial number file
Choose File C:\Users\Administrator\Desktop\2018年\项目\软件许可\ZKTeco测试组测试-01-SN.x

Register Online **Register Offline**

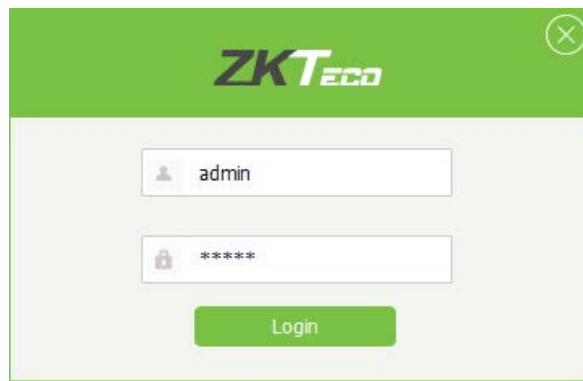
Trial **Exit**

2. Then click **Register Online** to finish the registration.

Register Offline

1. Click **Choose File**, select the SN.xml file, and then fill in the company name and email address on the license information interface.
2. Click **Download** to download the UPK.xml file, and then send it to our technical support staff, who will send the License.xml file to you.
3. On the license information interface, you can click **Register Offline**, open the License.xml file to finish the registration.

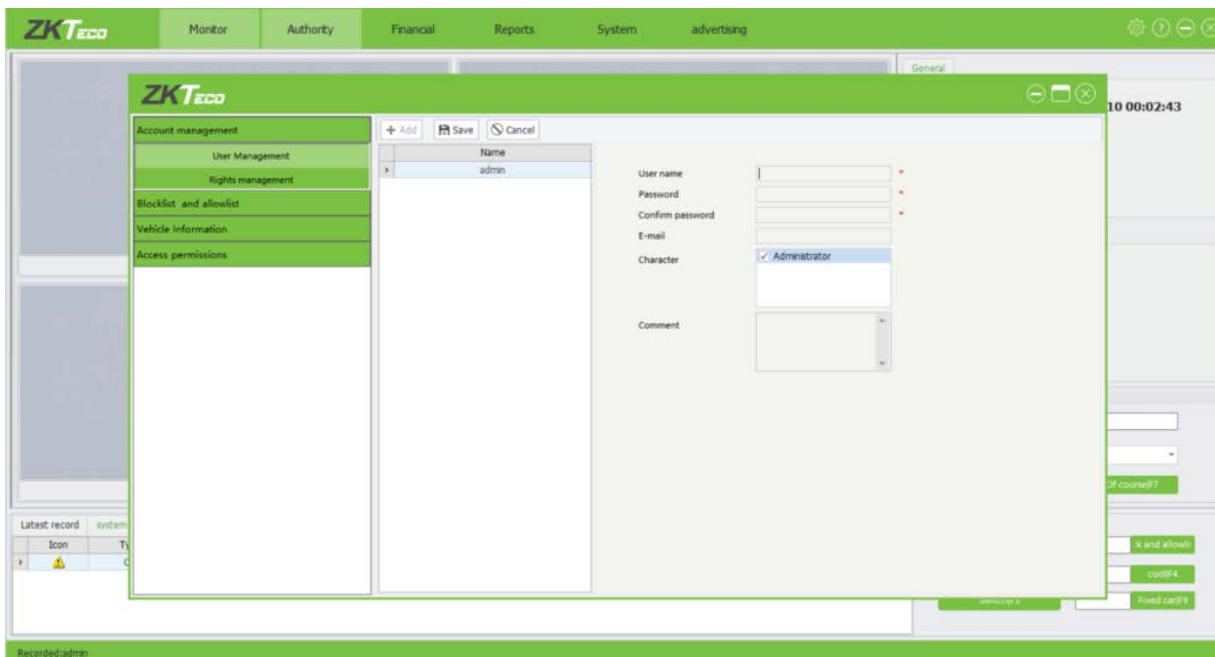
When the registration is complete, the login interface will pop up, as shown in the figure below, the default username and password are both **admin**:



After login, the system navigation interface pops up:



4 Authority Management

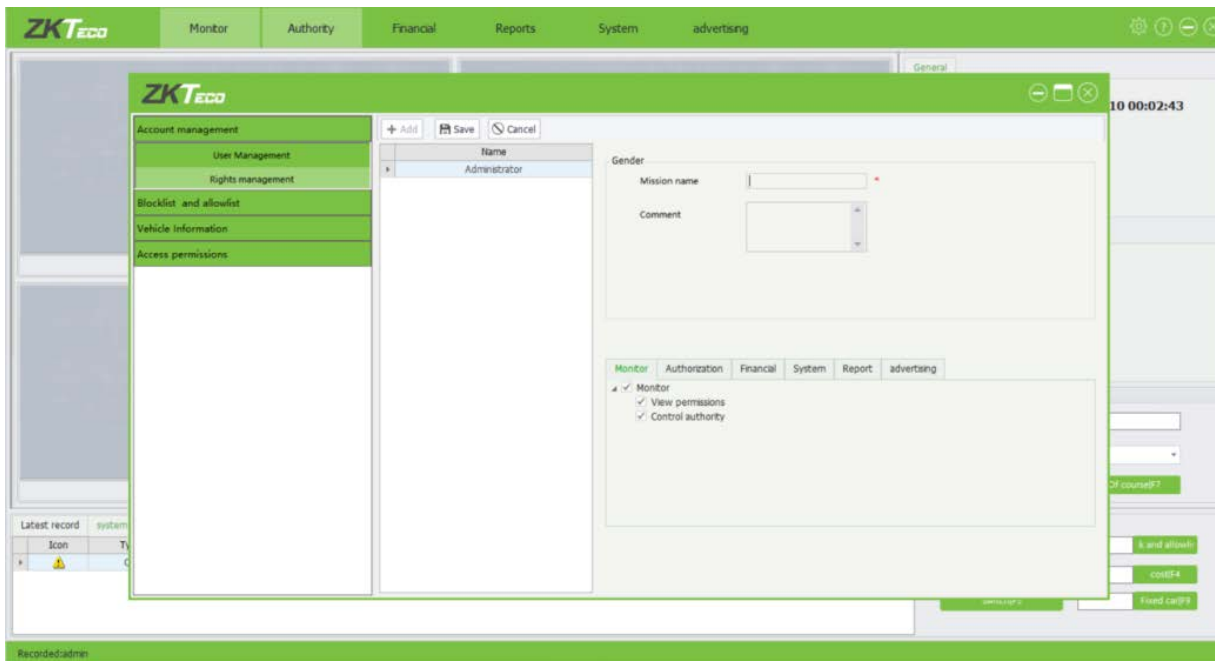




4.1 User Management

The method of Adding/Editing/Deleting a user is similar to the method of Adding/Editing/Deleting an employee. For more information, please refer to [4.4.6 Adding an employee](#), [4.4.7 Editing an employee](#), and [4.4.8 Deleting an employee](#).

4.2 Right Management

On the Role management interface, click  to access the role addition interface:

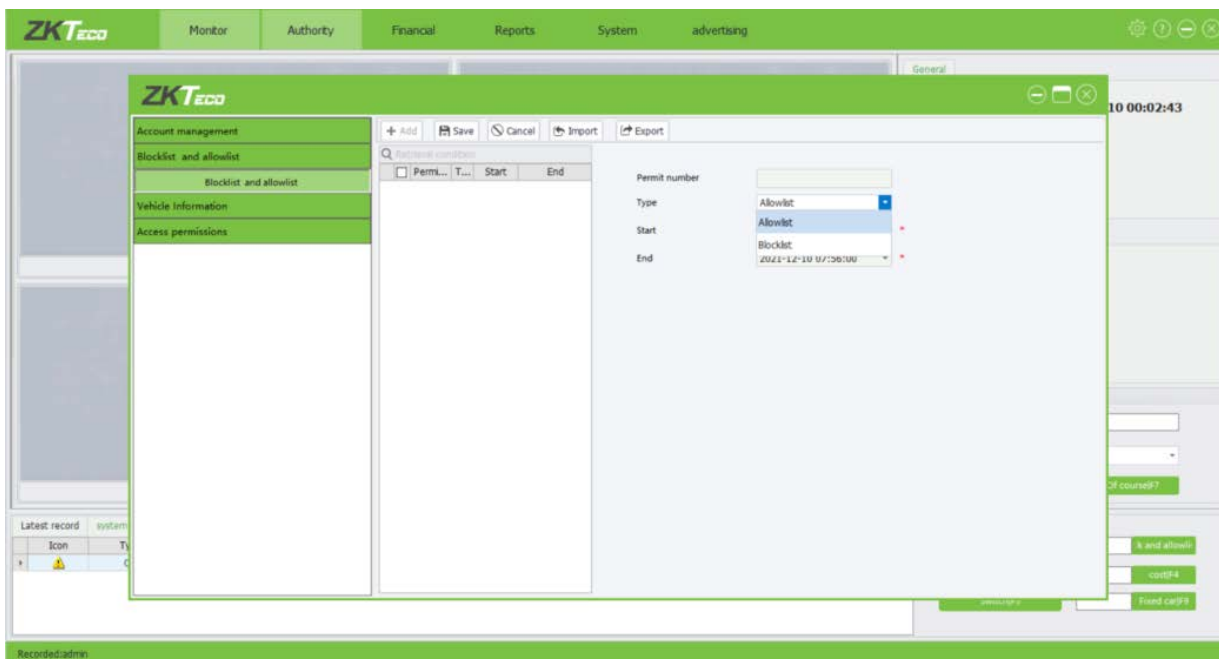


Set the role name and select the operation rights of the role in the rights list or select the highest-level rights to select all the lower-level rights. Specifically, select the root node Personnel and all lower-level rights, including Department and Employees, are selected. Click  to save the settings or click to  cancel the operation.

4.3 Blocklist and Allowlist

Cars on the Allowlist, including fire trucks, police cars, and privileged cars, can enter and exit the parking lot free of charge. Cars on the blocklist are not allowed to enter or exit the parking lot.

Click **[System]**→ **[Blocklist and Allowlists]** to access Blocklist and Allowlist management interface, on which you can add, edit, and delete information.

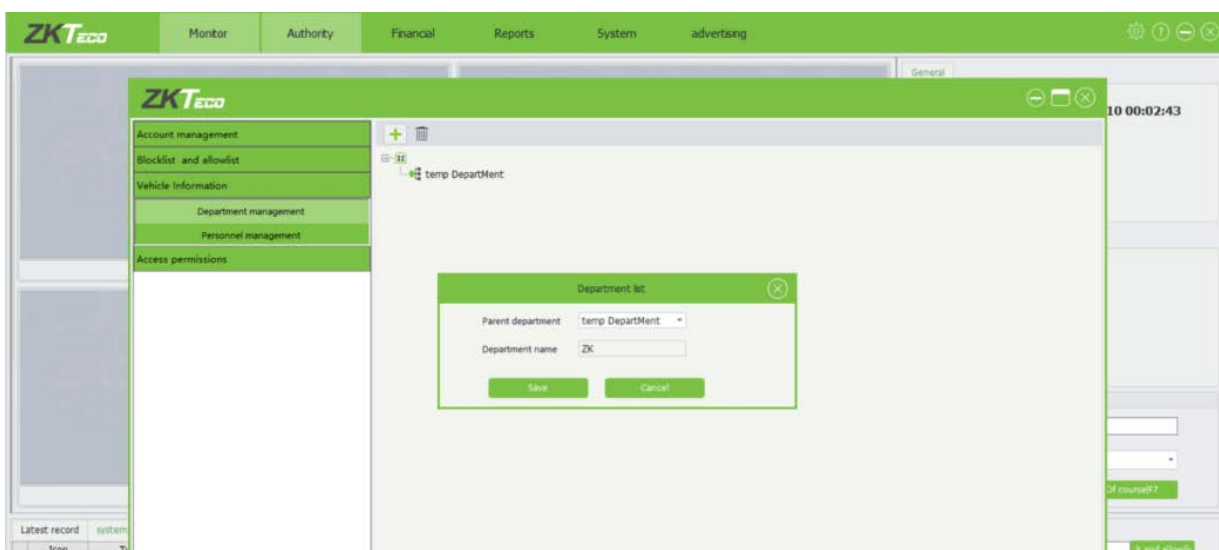


- **Permit number:** Input an effective car number on the input box.
- **Type:** Choose Allowlist or Blocklist.
- **Start/End:** The **Start** and **End** fields are unavailable for cars on the blocklist. The start date must be earlier than the end date. About how to choose a date, please refer to [Appendix 1 Date Setting](#).

4.4 Vehicle Information

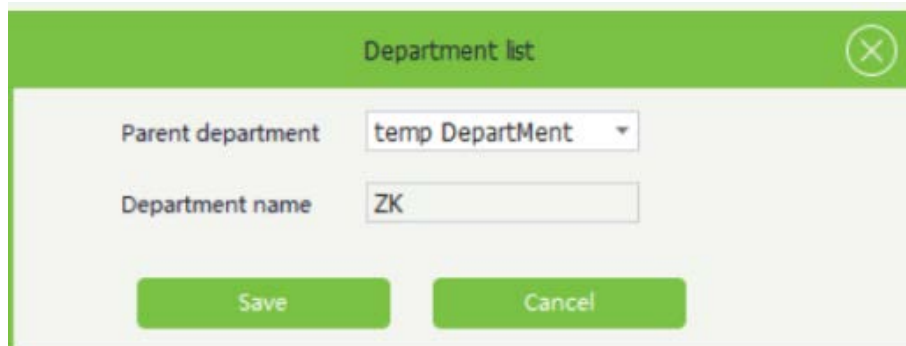
4.4.1 Department Management



Click [**Department Management**] to access the department management interface, on which you can add, edit, and delete departments.



4.4.2 Adding a Department

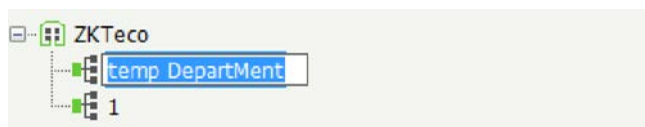
On the department management interface, click **+** to access the department edit interface:



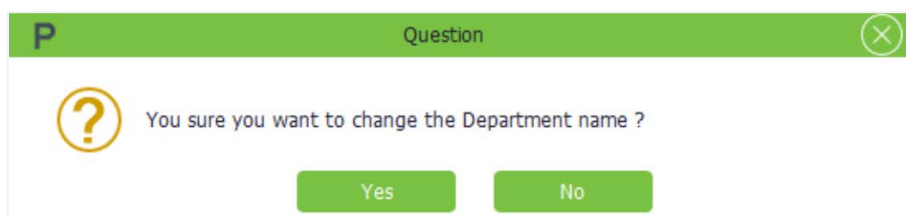
Parent department: It is an important parameter that defines the organizational structure of the company. Click  and select parent in the displayed drop-down list. Enter the department name and click  the company's organizational structure is displayed in a tree structure.

4.4.3 Editing a Department

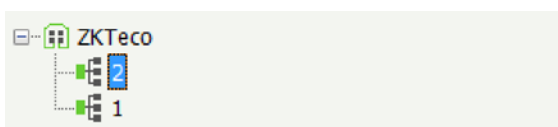
On the department management interface, [**Double-click**] the department you want to edit.



Modify the department name on the input box, and then press [**Enter**] on the keyboard, the following prompt will pop up:



Click [**Yes**]:



4.4.4 Deleting a Department

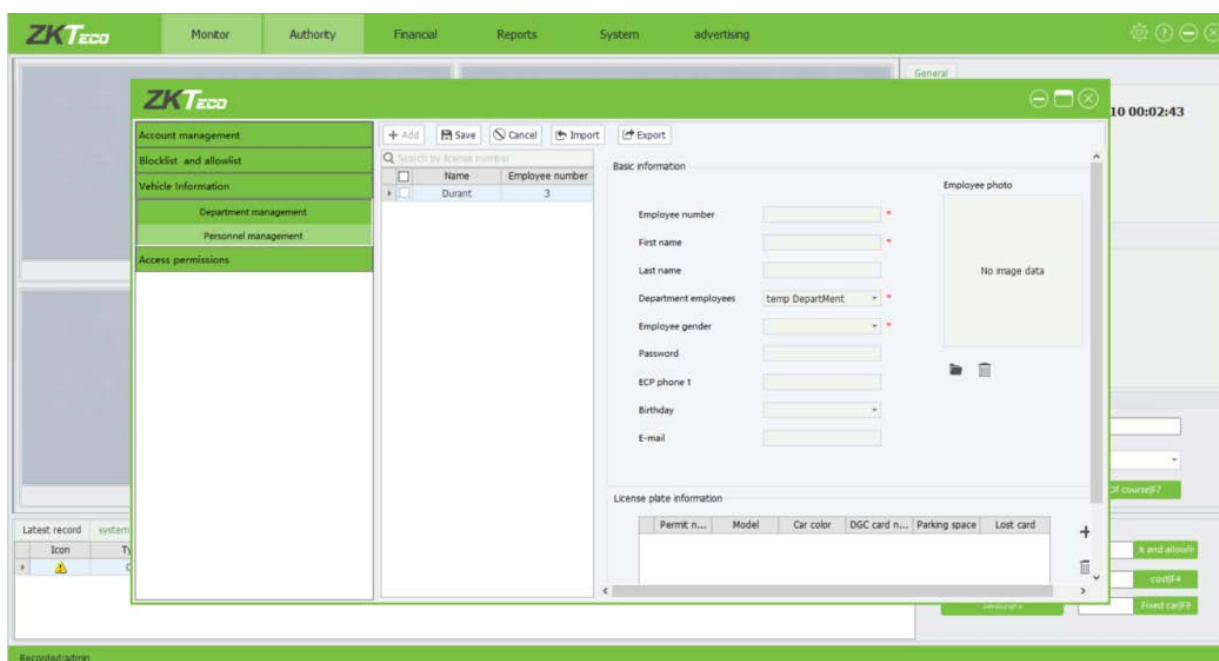
On the department management interface, select the department you want to delete, and then click



, the selected department will be deleted directly.



4.4.5 Personal Management

Click [**Personnel Management**] to access employees management interface, on which you can add, edit, delete, import, and export employee information.



Basic Settings: Basic information about the employee.

- **Employee Number:** By default, the employee number is a string of a maximum of nine digits. The value range is 1 to 999999999. Set the employee number based on the actual situation.
Note: Employee numbers must be unique.
- **First Name/Last Name:** The value is a string of a maximum of 24 characters.
- **Department/Gender employee:** Select the department/gender of the employee from the corresponding drop-down list.
- **Password:** The value is a string of a maximum of eight digits. The password must be unique.
- **ECP phone 1:** The maximum length is 11 digits.
- **Email:** Enter a valid email address of the employee.
- **Birthday:** Select the birthday of the employee from the drop-down list. About how to choose a date, please refer to [Appendix 1 Date Setting](#).

- Image:** The optimal size is 200 * 200 pixels. The image capacity must be less than 2 MB. Picture formats including jpg, jpeg, bmp, png and gif are supported. Click  to browse the selected image and click  to delete it.



License Number: license plate number of the employee.

License Plate Information

Car number	Car type	Car color	Parking spaces
กข5612			1

Car number: Input an effective car number on the input box. If an invalid license plate number is input, the following prompt will pop up:



Click  to add a license plate number. Multiple license plate numbers can be added for an employee. Click  to delete a license plate number.

4.4.6 Adding an Employee

On the employee management interface, click , fill in the basic information and license number of the employee, then click  to save the information, then click  to cancel the operation.


4.4.7 Editing an Employee

On the employee management interface, select an employee whose information is to be edited.

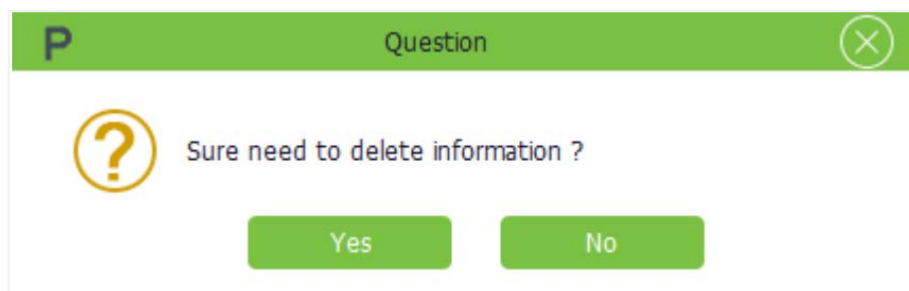
On the right of the interface, modify the basic information, license plate number, and then click



4.4.8 Deleting an Employee



On the employee management interface, select an employee and click .

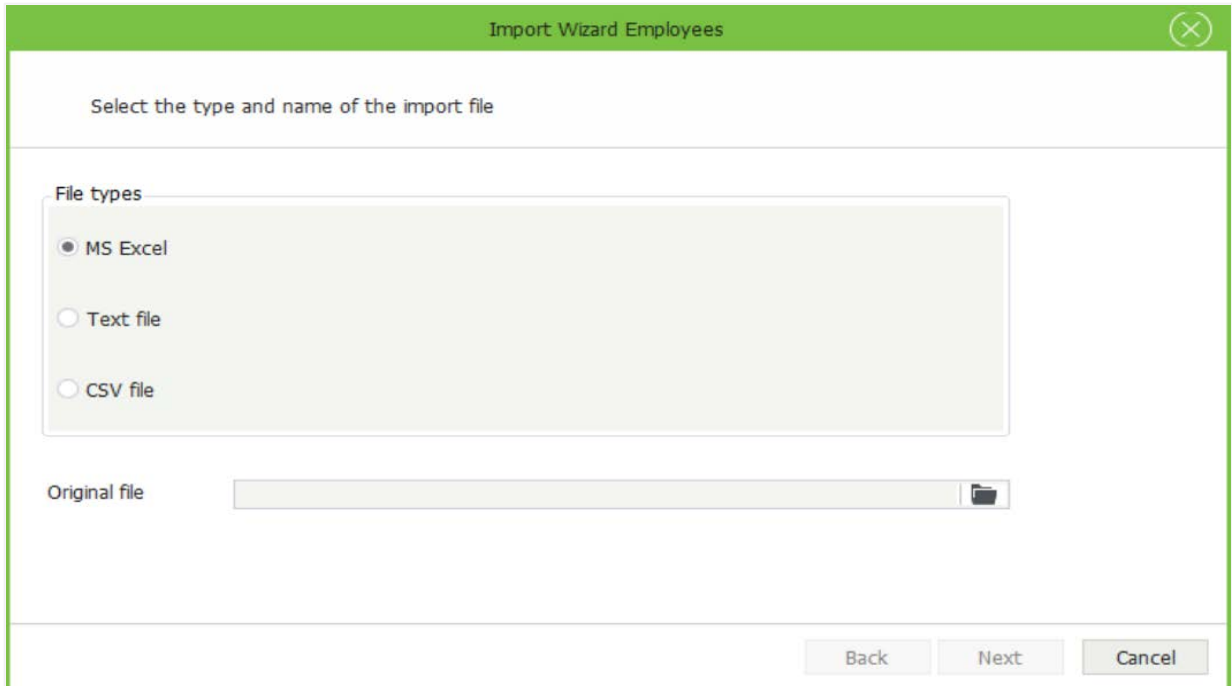
The following prompt will pop up. Click  to delete the employee or click  to cancel the operation.





4.4.9 Import & Export

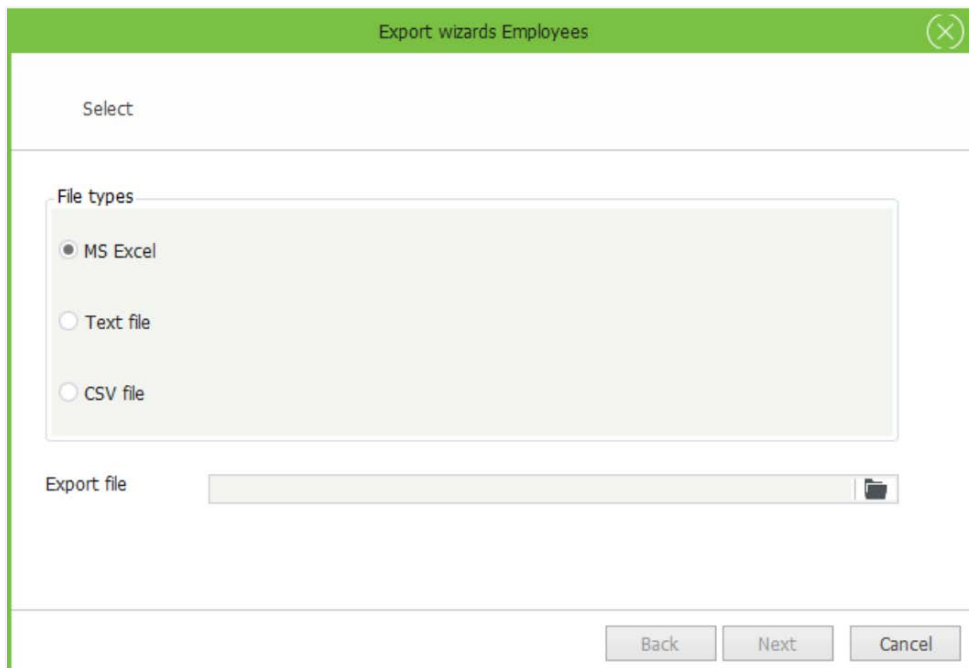
Import

On the employee management interface, click  to import employee information to the software. Three file types are supported: MS Excel, Text file and CSV file. Click  to select the file path.



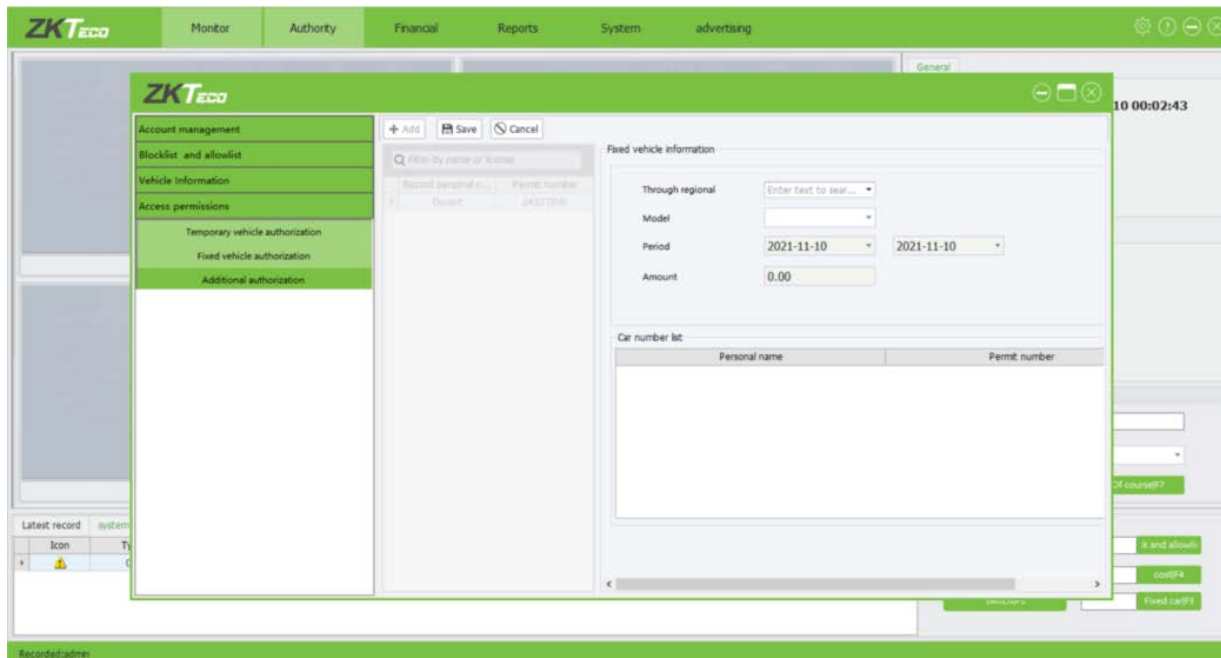
Export

On the employee management interface, click  to export employee information from the software. Three file types are supported: MS Excel, Text file and CSV file. Click  to select the save path of the exported file.

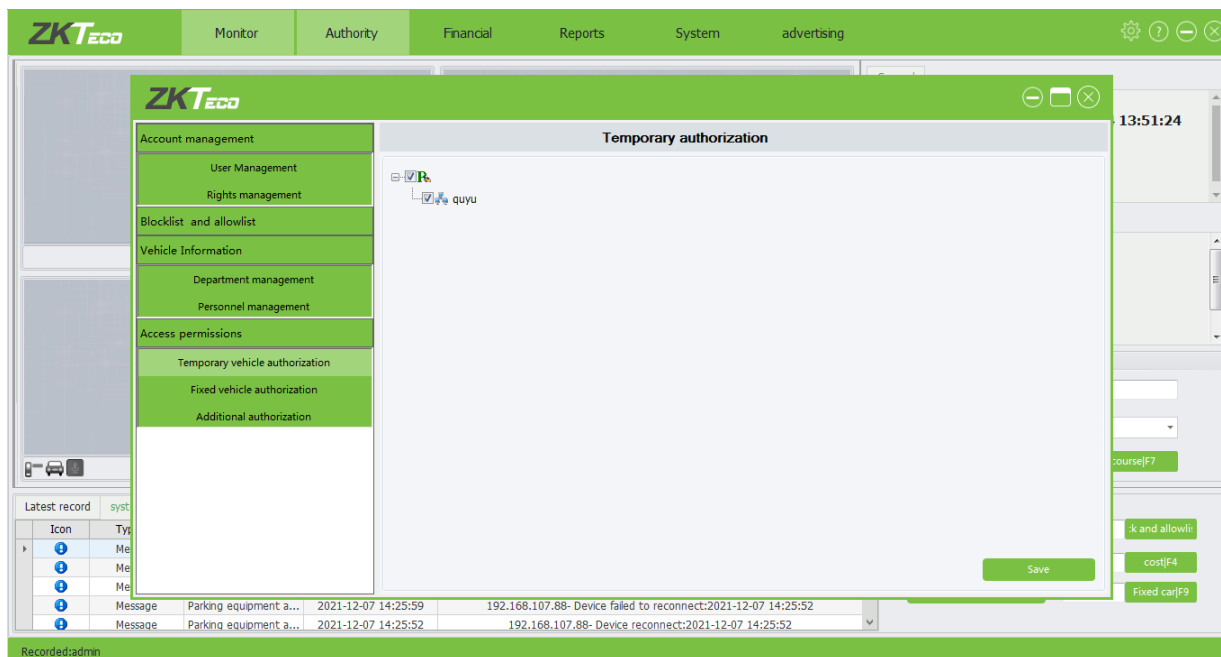


4.5 Access Permissions

Click **[Authorization]**→ **[Access Permissions]** to access authorization interface, on which you can add, search for, edit, and delete authorization information.



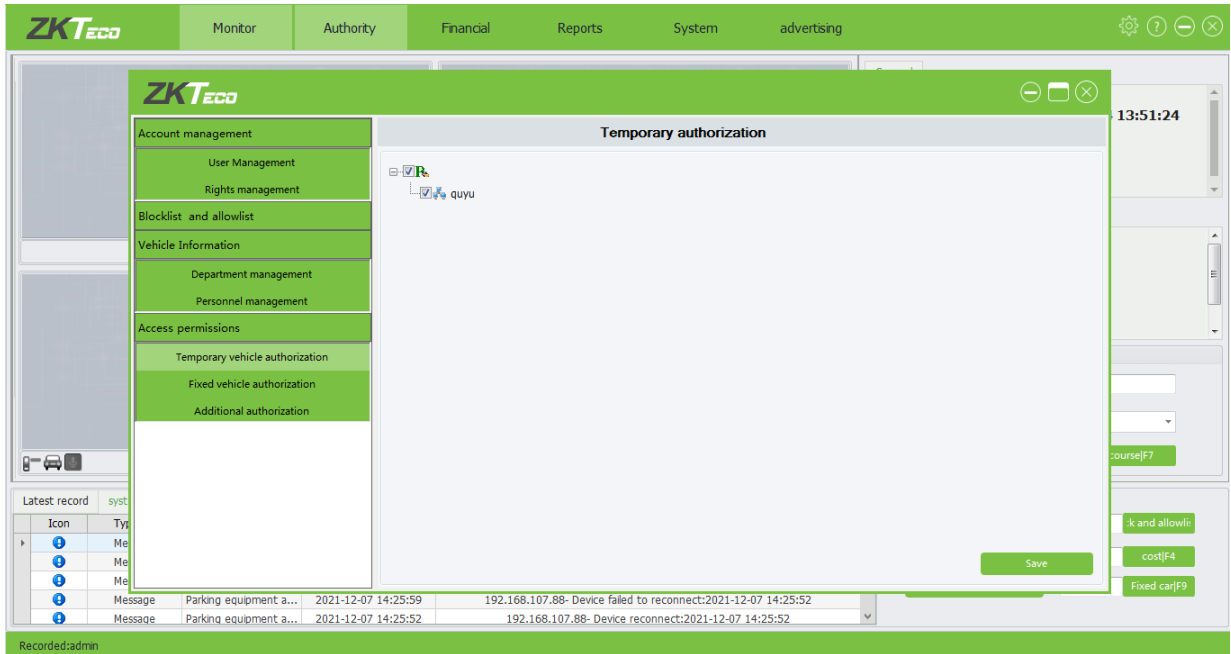
4.5.1 Temporary Vehicle Authorization



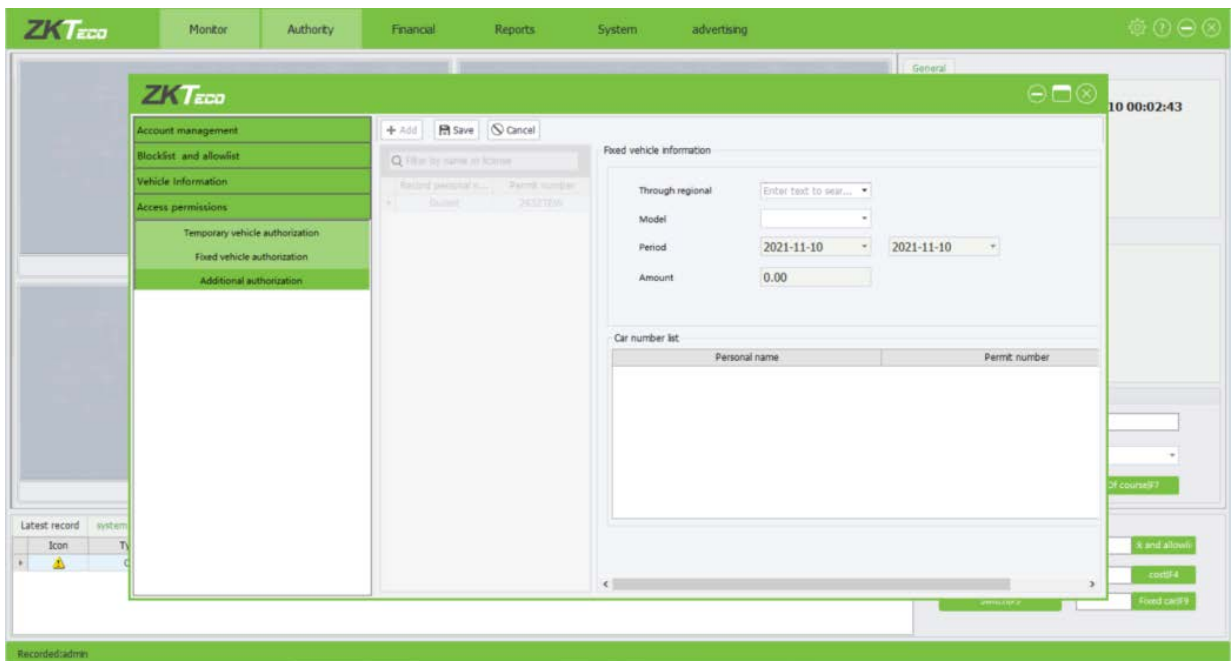
Click **[Authorization]**→ **[Temporary Vehicle Authorization]** to enter Provisional Authorization interface, select the areas that the car is authorized to pass through and then click **Save**.

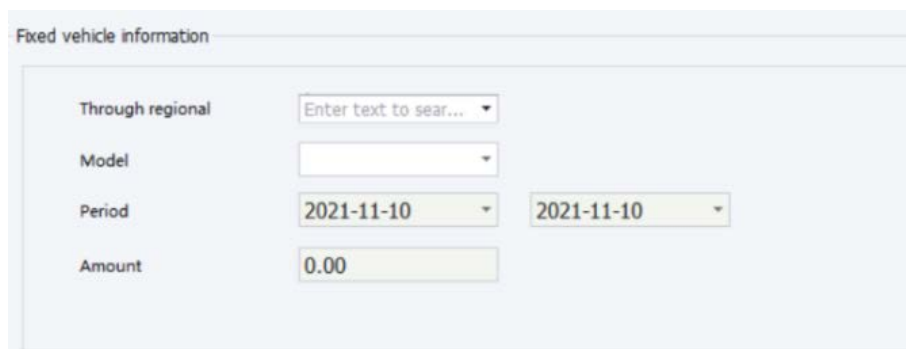
Workstations must be added in terminal in advance. For more information, please refer to [7.3.2 Adding a workstation](#).

Note: If no area is selected, provisional cars are not allowed to enter the parking lot.



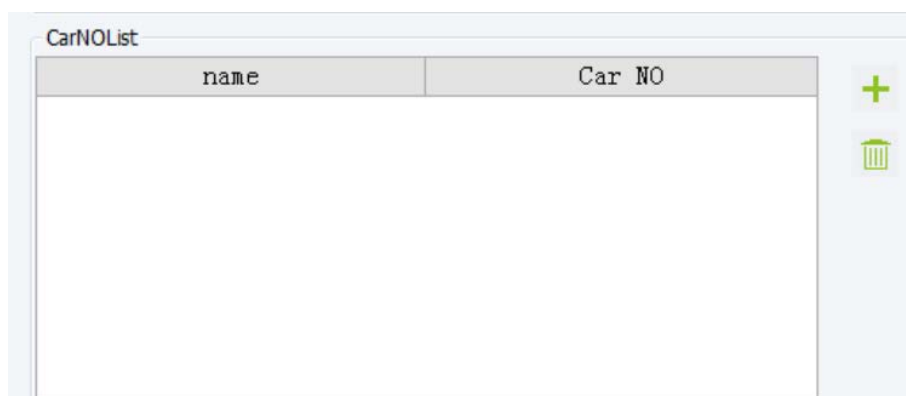
4.5.2 Fix Vehicle Authorization





- Through regional:** Set the areas that the license plate number is allowed to pass through. Specifically, click ▼, select areas from the drop-down list, and then click **Sure**. Workstations must be set in Terminal in advance. For more information, please refer to [7.3.2 Adding a workstation](#).
- Model:** Type of the car, only car types that are enabled in basic settings of system are displayed here.
- Period:** Validity period during which the license plate number is authorized as a fixed car. The start date must be earlier than the end date. About how to choose a date, please refer to [Appendix 1 Date Setting](#).
- Amount:** Deposit to be paid for the car that is authorized as a fixed car.

Car number list:



name	Car NO

- Add:** Click +, in the license plate number list (with the license plate numbers of all personnel in the system), select a license plate number and click **Added** to add the license plate number to Car Number List.

name	Car NO
David.Lou	๗๓6486

	name	Car NO
<input type="checkbox"/>	Amy.Li	๗๓5612
<input checked="" type="checkbox"/>	David.Lou	๗๓6486
<input type="checkbox"/>	David.Lou	๗๓4685

Note: Only one license plate number is included in **Car Number List**. to replace it, repeat the preceding steps.

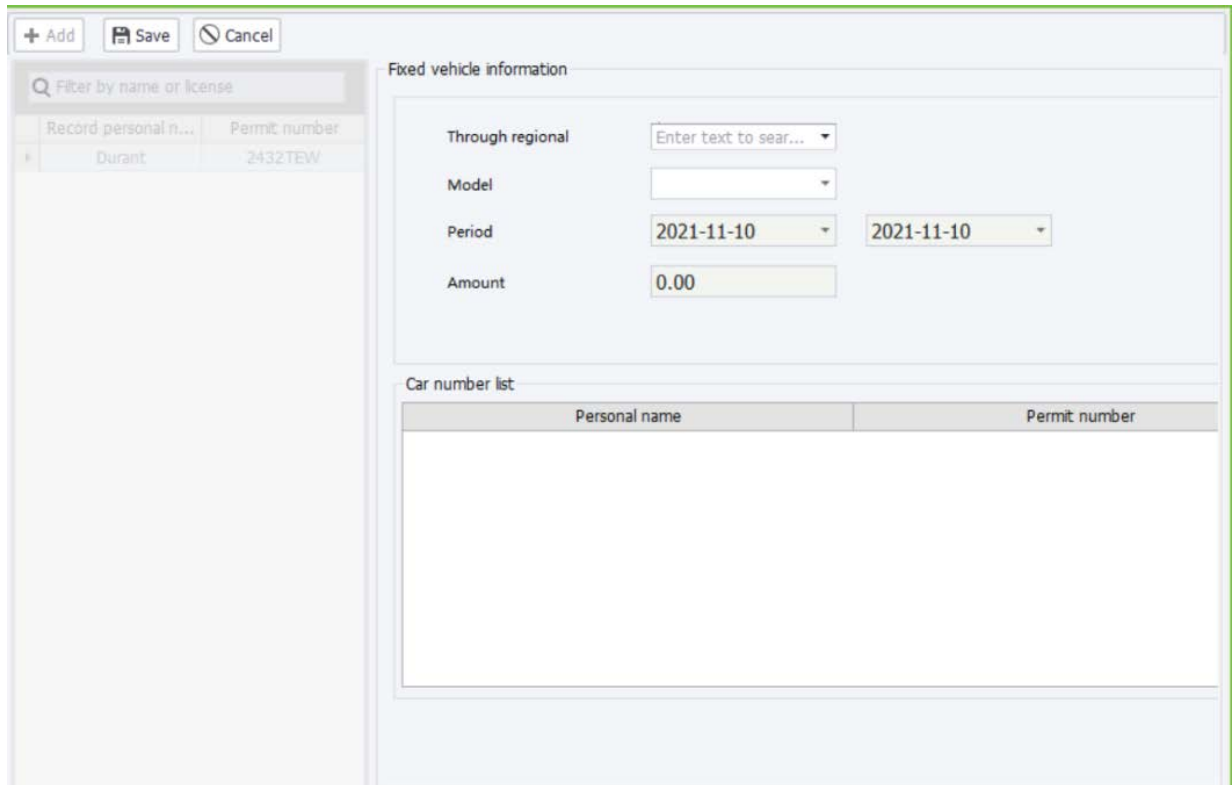
- **Delete:** Select the license plate number in **Car Number List** and click to delete it.

4.5.3 Adding a Fixed Car

On the fixed authorization interface, click to access the fixed car authorization interface and set relevant information. Then click to save the settings or click to cancel the operation.

4.5.4 Finding a Fixed Car

On the fixed authorization interface, input the owner’s name or license plate number in the search box , and then press **[Enter]** on the keyboard. Information about the fixed car is displayed on the right of the interface.




4.5.5 Editing/Deleting a Fixed Car

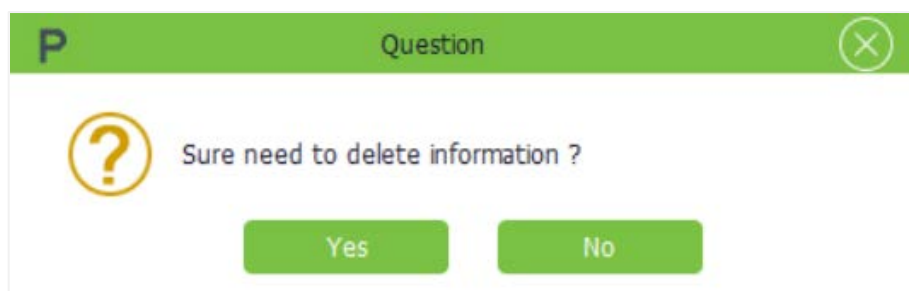
Edit:

On the left of the fixed authorization interface, **click** a fixed car or search for a fixed car and select it. Only the areas that the car is allowed to pass through can be edited and other information cannot be edited.

Delete:

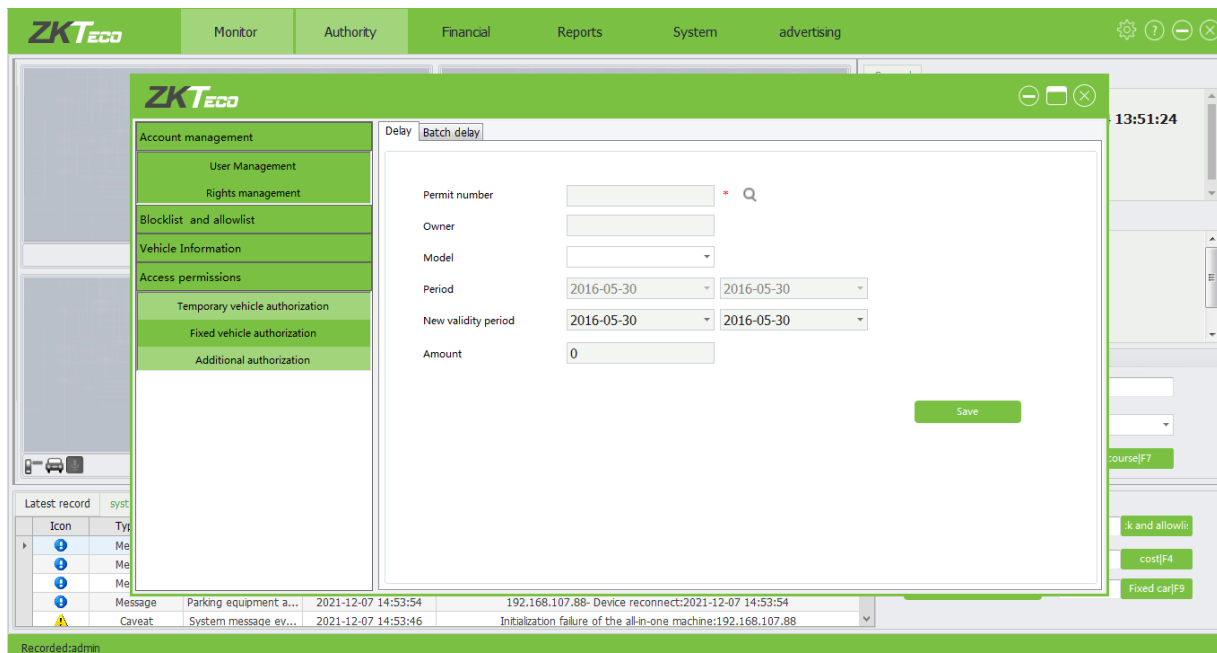
On the left of the fixed authorization interface, **click** a fixed car or search for a fixed car and select it.

Then **click** , the following prompt will pop up: click **Yes** to delete information or **click** **No** to cancel the operation.

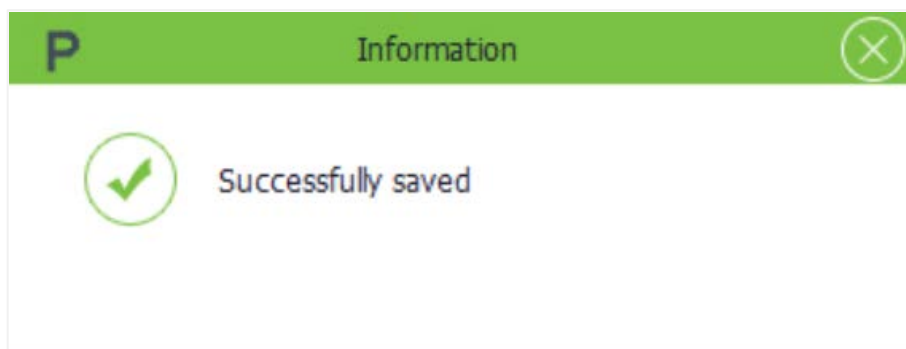


4.5.6 Additional Authorization

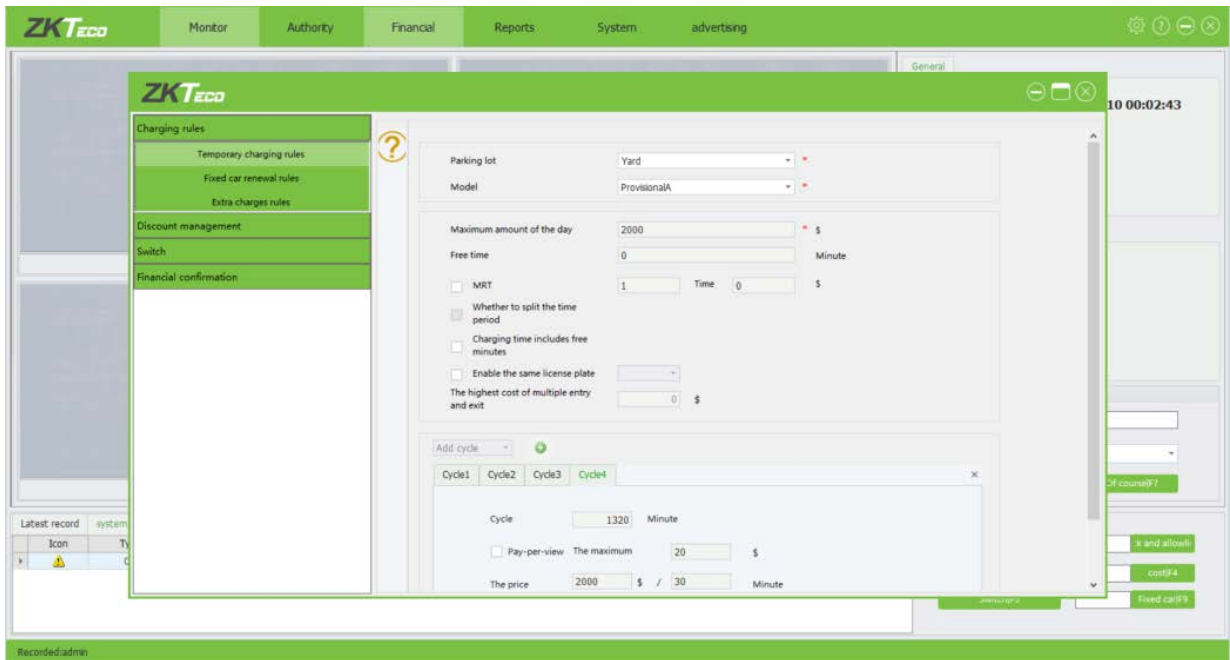
Click **[Authorization]** → **[Additional Authorization]** to enter additional authorization interface:



- **Permit number:** Enter a license plate number or click to select a fixed car whose authorization period is to be extended.
- **Owners/Model:** After a fixed car is selected, the owner name and car type are automatically displayed and cannot be edited.
- **Period:** Validity period during which the car is authorized as a fixed car. The specified validity period cannot be edited.
- **New validity period:** In the new validity period the start date must be earlier than the end date. About how to choose a date, please refer to [Appendix 1 Date Setting](#).
- **Amounts:** Amount of money to be paid for the extension.
- Set the information as required and **click** **Save** to save the settings.

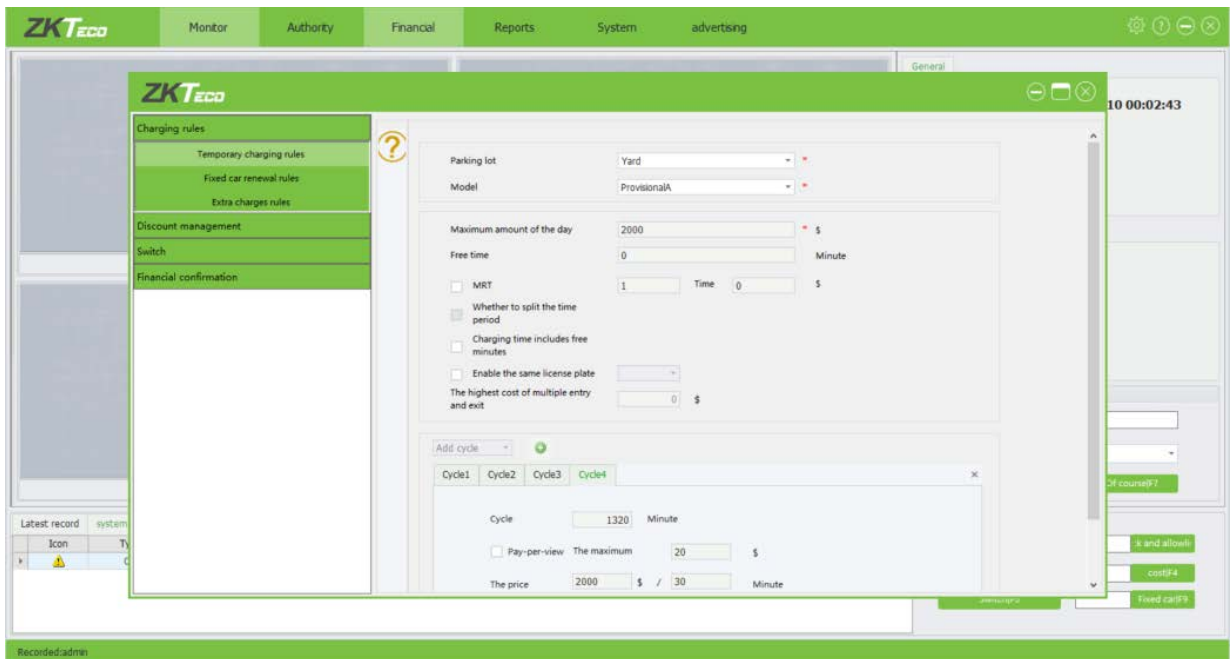


5 Financial



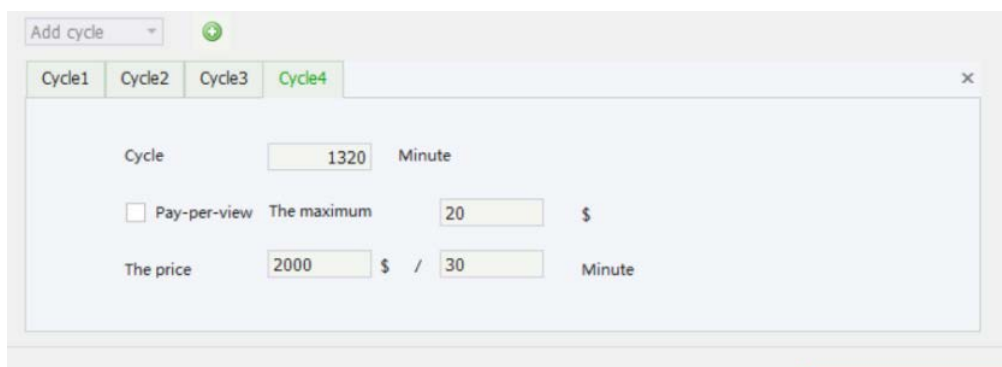
5.1 Temporary Charging Rules


On the temporary rules interface, you can set the charging rules for temporary cars. Only one charging rule can be created for a type of provisional cars in the same parking lot. Click **[Financial]** → **[Charging Rules]** → **[Temporary charging Rules]**.




- **Parking Lot:** Parking lot to which the charging rule is applied.
- **Model:** Provisional car type to which the charging rule is applied. Only car types enabled on the interface displayed after you choose [System] → [System] → [Basic Settings] are displayed here. For more information, please refer to "Set the enabled car model or a custom name" in 5.1 System Settings.
- **Maximum amount of the day:** Upper limit of the charged amount per day. For example, if the charged amount is 1.5 USD per hour, totally 38 USD is charged for a whole day. However, if the maximum charged amount is set to 15 USD, only 15 USD is charged.
- **Free time (Minutes):** A car is not charged if its parking duration does not exceed the specified value.
- **MRT:** The overtime violation fee is used to set the time point for the fine. When the vehicle enters before this point, it will be out after this point. Pay according to the set amount.
- **Whether to split the time period:** Assume that the charged amount is set to 0.2 USD per 15 minutes from 9:00 to 10:00 in period 1, and to 1.5 USD per 15 minutes from 10:00 to 11:00 in period 2, and the parking duration is from 9:43 to 10:30. If this item is not selected, 0.2 USD is charged from 9:43 to 9:58. The charging cycle from 9:58 to 10:00 is shorter than 15 minutes and therefore the duration from 10:00 to 10:13 is added to this charging cycle. The duration from 10:13 to 10:28 is charged based on period 2. If this item is selected, 0.2 USD is charged for the duration from 9:43 to 9:58 and the duration from 9:58 to 10:00 though it is less than 15 minutes. The duration from 10:00 to 10:15 is charged based on period 2.
- **Charging time includes free minutes:** Assume that the free parking duration is 30 minutes, and the actual parking duration is 31 minutes. If this item is selected, the car is charged based on the actual parking duration 31 minutes. If this item is not selected, the car is charged based on the excess parking duration, which is 1 minute.
- **Enable the same license plate (Natural or 24 hours) and the highest cost of multiple entry and exit:** If the accumulated expenses of a car entering and exiting the parking lot for multiple times exceeds the specified value, no more expenses are charged within the specified period. The period can be set to Natural or 24 hours, in which Natural refers to the period from 0:00 to 24:00 and 24 hours refers to the duration from the entry time point to the same time point on the second day.

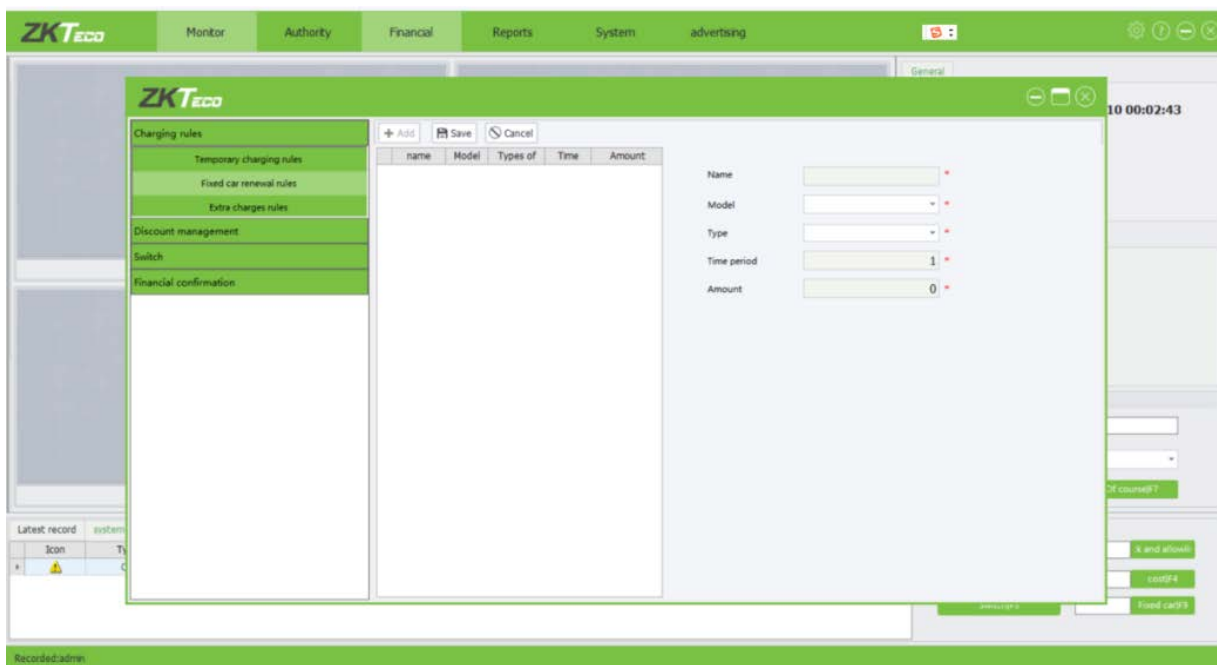
Add cycles:



When setting charging rules for different cycles, ensure that the sum of all cycles since the entry time is 1440 minutes (24 hours). You can click  to add multiple cycles.

Note: If cycle-based charging is enabled, the split time period function becomes invalid. Set the parameters based on the actual situation and then click  to modify any parameter, directly modify it and save the modification.

5.2 Fixed Car Renewal Rules



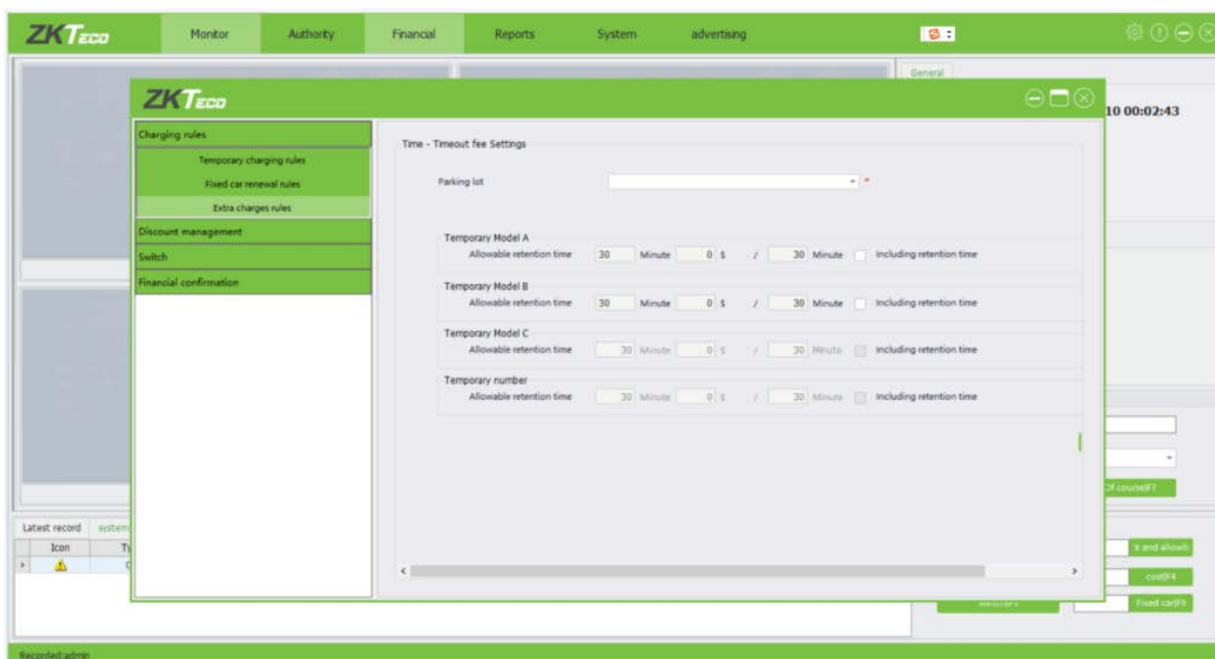
Click **[Financial]** → **[Fixed car renewal rules]** to access Fixed Rules interface, on which you can add, edit, and delete fixed rules.

- **Name:** Name of the fixed car charging rule.
- **Model:** Fixed car type to which the charging rule is applied.

- **Type:** Charging cycle type, which can be set to by monthly or by day.
- **Time Period:** Charging period. The unit depends on the charging cycle type. For example, if Type is set to by monthly and Period is set to 1, the charging period of this fixed car type is 1 month.
- **Amounts:** Charged amount of the fixed car type during the charging period.

5.3 Extra Charge Rules

Only one timeout charging rule can be created for a type of provisional cars in the same parking lot. Click **[Financial]** → **[Extra Rules]**:



Time-out fee setting: Charging rule applied when the allowed residence time is exceeded.

- **Parking Lot:** Parking lot to which the timeout charging rule is applied.
- **Allowable retention time:** Duration that a provisional car is allowed to remain in the parking lot temporarily after payment. If the specified time is exceeded, the car is charged again, and the charged amount can be customized.
- **Include retention time:** Assume that the allowed residence time is 30 minutes and a car park in the parking lot for 31 minutes after payment. If this item is selected, the excess parking duration is 31 minutes. If this item is not selected, the excess parking duration is 1 minute. Set the parameters based on the actual situation and then click **Save**. To modify any parameter, directly modify it and save the modification.

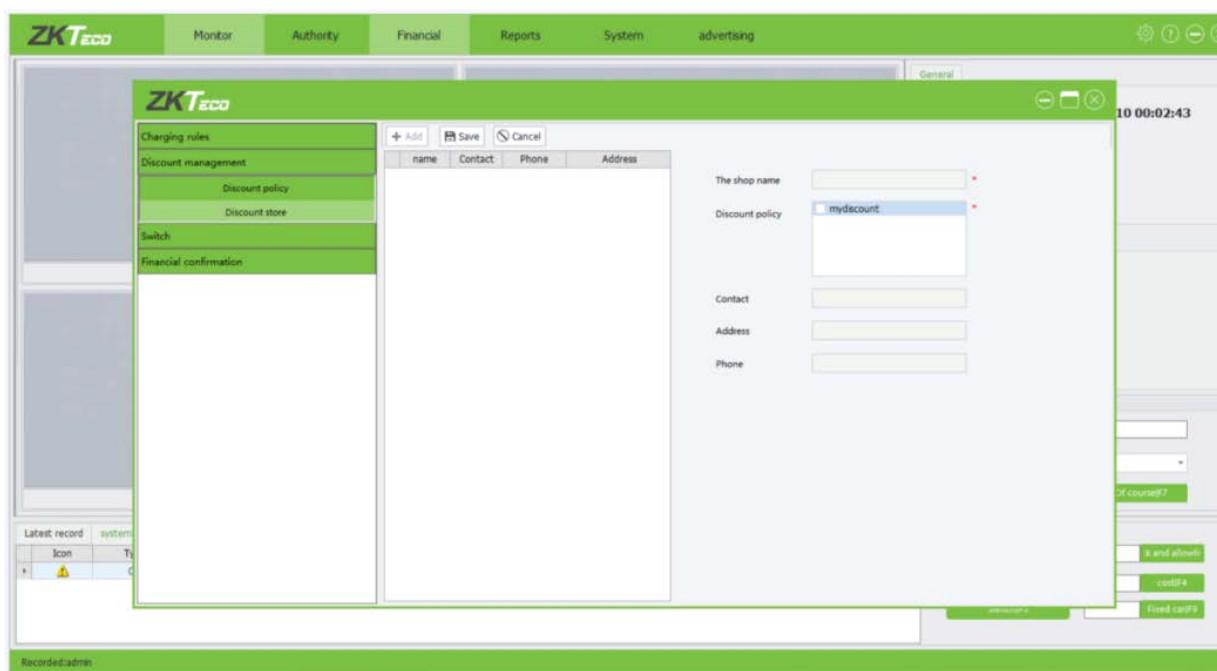
5.4 Discount Policy

Click **[Financial]** → **[Discount Policy]** to access discount policy interface:

- **Name:** Name of the discount policy.
- **Type of policy:** There are four types: a. Free Charge (not charged); b. Policy Amount (deducted by a fixed amount); c. Hours (parking duration minus a fixed number of hours); d. Policy Percent (deducted by a fixed percentage of the amount).
- **Value:** Preferential amount. When Type of policy is set to Free Charge, this item is invalid. When Type of policy is set to other values, the corresponding unit prevails.

5.5 Discount Store

Click **[Financial]** → **[Discount Policy]** to access discount policy interface:



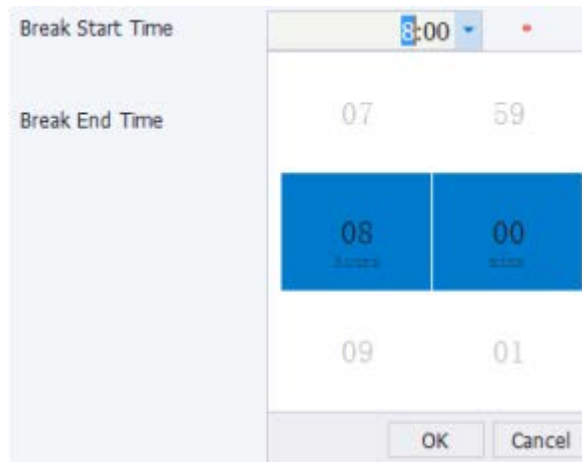
In Discount Store, you can specify certain places for enjoying discount policies, that is, units and shops. For example, a user can use the receipt to reimburse the parking expense after shopping in the specified supermarket. Click **[Financial]** → **[Discount Store]** to access Discount Store interface:

- **Shop Name:** Name of the shop.
- **Discount Policy:** Select a discount policy specified.
- **Contact:** Contact of the shop
- **Address:** Contact address of the shop.
- **Phone Number:** Phone number of the shop.

5.6 Switch

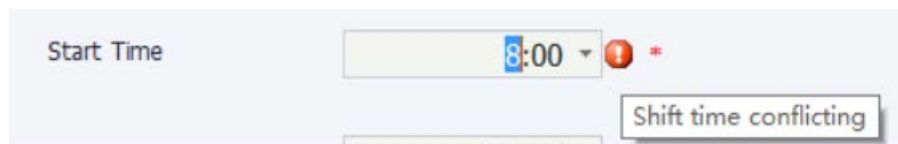
Click **[Financial]** → **[Switch]** to access Shift interface:

- **Name:** Shift name.
- **Parking Lot:** Parking lot of the shift.
- **Start/End Time:** Start time and end time of the shift. You can directly enter the time or click and select the time.



The screenshot shows a dialog box for selecting shift times. On the left, there are labels for 'Break Start Time' and 'Break End Time'. The 'Break Start Time' is currently set to 8:00. Below it, a grid of time options is displayed: 07 59, 08 00 (highlighted in blue), and 09 01. At the bottom of the dialog are 'OK' and 'Cancel' buttons.

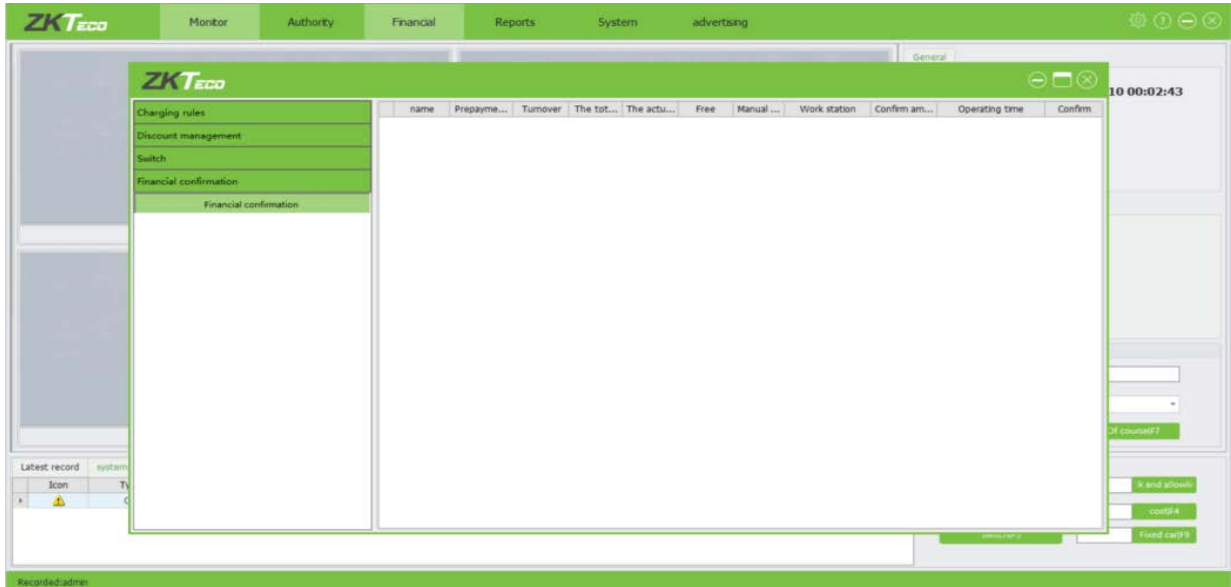
Note: The periods of different shifts cannot overlap; otherwise, a message indicating shift time conflict is displayed.



The screenshot shows a 'Start Time' field with a dropdown menu set to 8:00. A red error icon and a message box are visible. The message box contains the text 'Shift time conflicting'.

5.7 Financial Confirmation

Click **[Financial]** → **[Financial Confirmed]** to access Financial Confirmed interface:

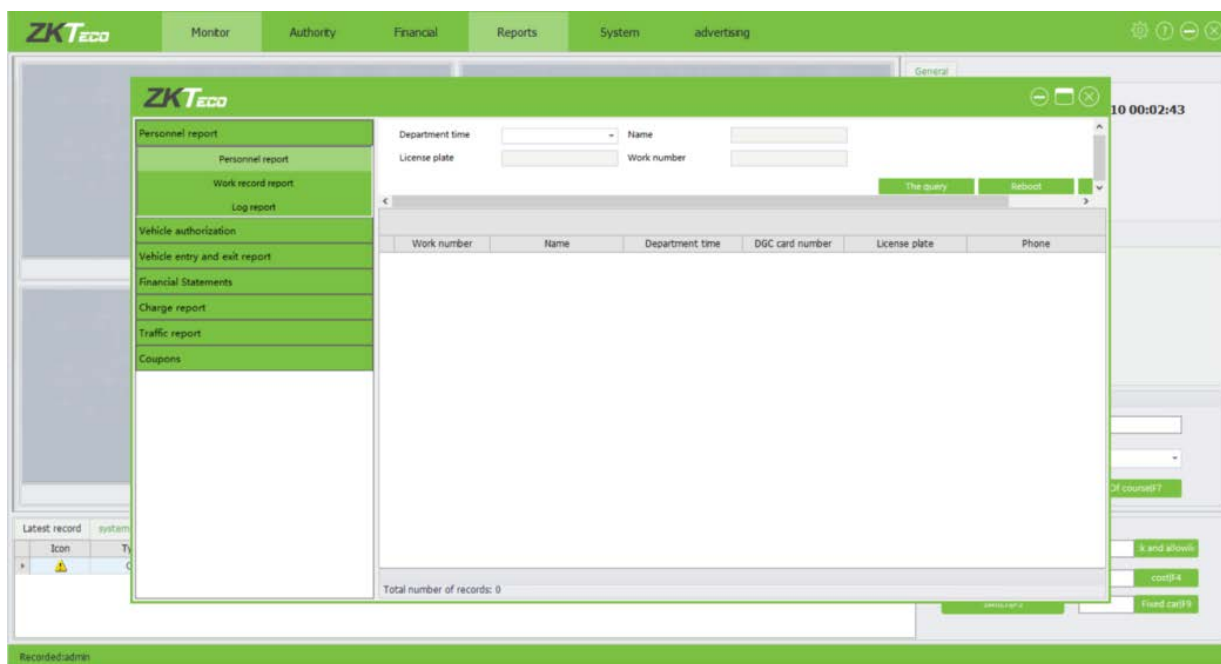


- **Name:** Name of the operator.
- **Advance amount:** Amount of money placed at the booth in advance (for change).
- **Business amount:** Charged amount.
- **Total amount:** Prepaid amount + business volume.
- **Actual amount:** Amount input by the operator when changing the shift.
- **Open by hand:** Number of times that the boom barrier is raised manually.
- **Free out:** Number of manual release times.
- **Workstation:** Workstation IP address.
- **Confirm amount:** Amount confirmed by the financial staff.
- **Operate time:** Confirmation time

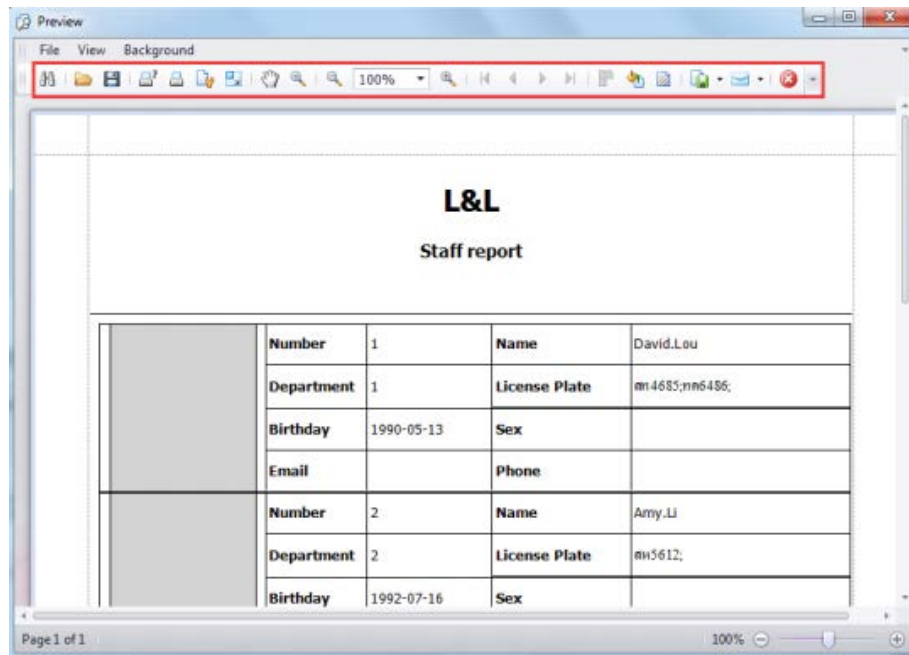
If all information is correct, **click**  below the Confirm column.

6 Reports

With the reports function, you can perform statistical analysis for data of the parking lot to implement overall control of the parking lot information. Report types includes Staff, License Authorized, Vehicle Extension, Vehicle in Field, Vehicle Charging, Financial Reconciliation, Operators Commute, Consumer Discount, Charging Statistics, Traffic Statistics and Shop Consumption.

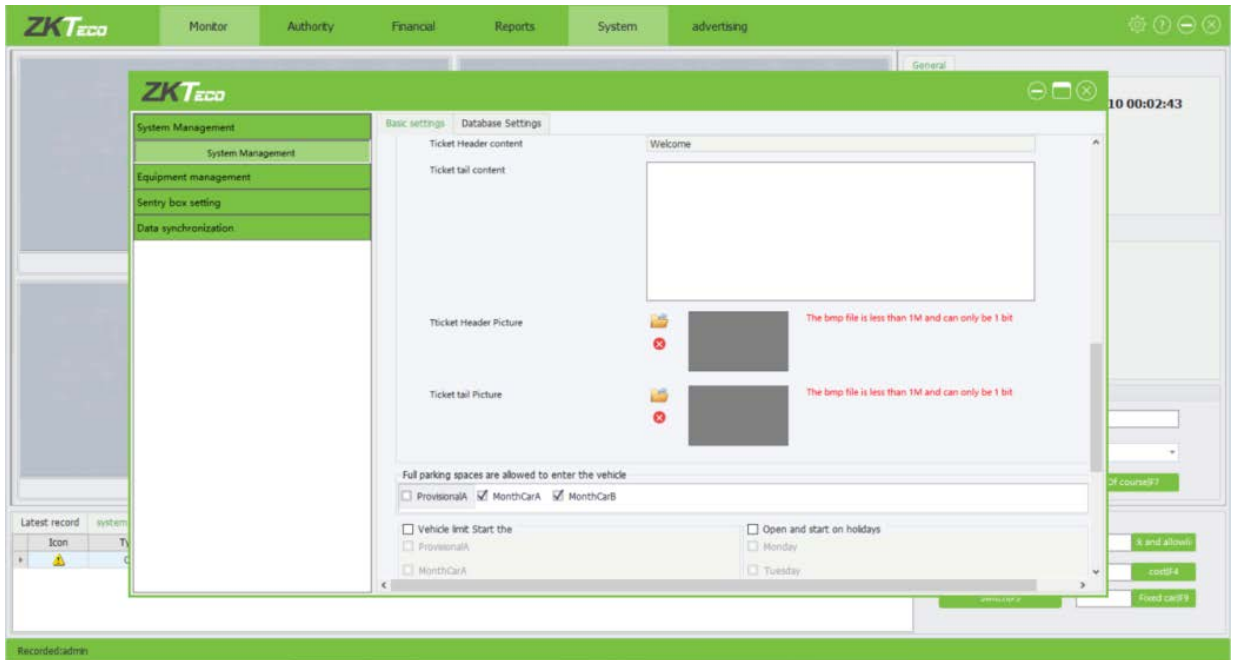


1. Set the report period., about how to choose a date, please refer to [Appendix 1 Date Setting](#).
2. Enter license plate numbers as required. If no license plate number is entered, the report contains all license plate numbers in the system.
3. Click the corresponding icon to obtain reports as required, such as the staff report. The preview interface is displayed. The operation method is the same for other types of reports.

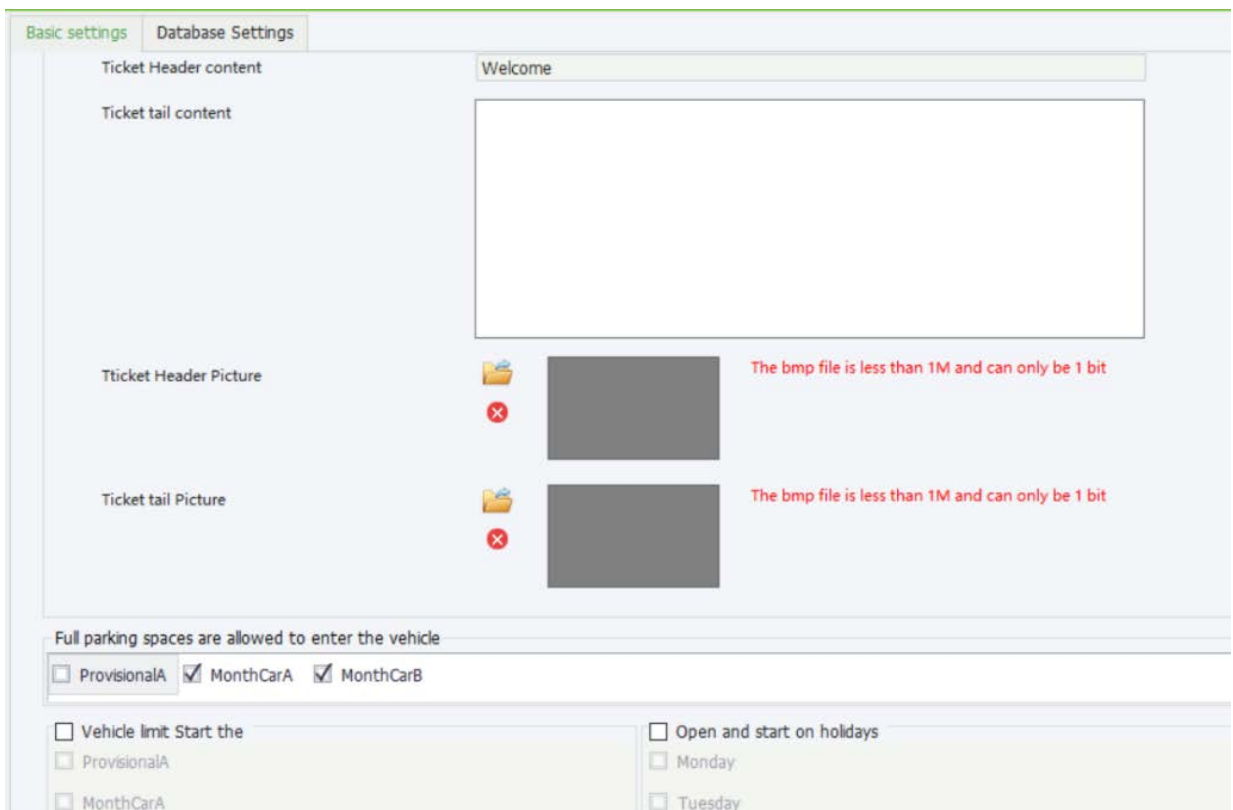




4. Perform various operations such as saving and printing by clicking corresponding icons on the toolbar of the preview window.

7 System



7.1 System Management



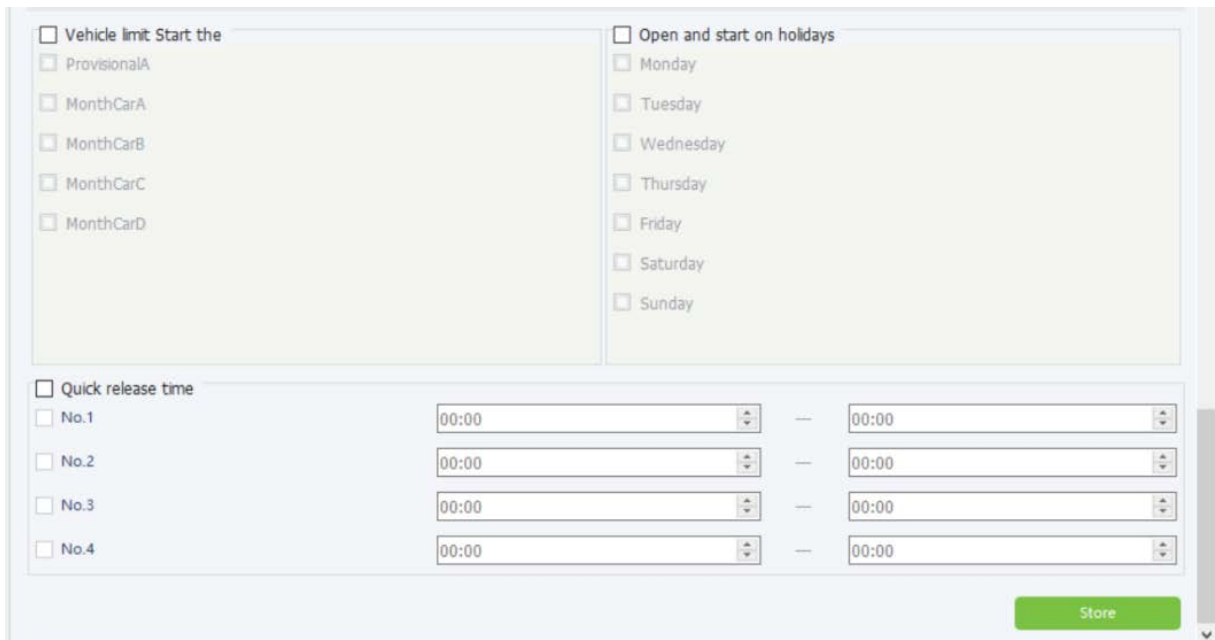
- **Ticket header content:** Name of the company. (This field is mandatory).
- **Ticket header picture:** Click  to select the save path of pictures. This field is mandatory.
- **Ticket tail picture:** Click  to select the save path of pictures. This field is mandatory.
- **Full Parking space are allowed to enter the vehicle:** It could authorization for the car when the parking space is full.

- **Monthly car warning day:** If the validity period of a fixed car is shorter than the specified value, the number of remaining days is displayed on the LED screen when the car enters and exits the parking lot.
- **Refresh time:** Set the refresh time, the default is 10s.
- **Type of barcode printed at the entrance:** You can choose to print one-dimensional code or two-dimensional code.
- **Whether to enable car card:** Allow swiping the card.
- **Cars come and go many times a month:** A fixed car can enter and exit the parking lot with no matched record required.
- **Monthly statistical space for cars:** A fixed car occupies a parking space after entering the parking lot.
- **Set monthly car as temporary car:** After the validity period expires, a fixed car is treated as a provisional car.

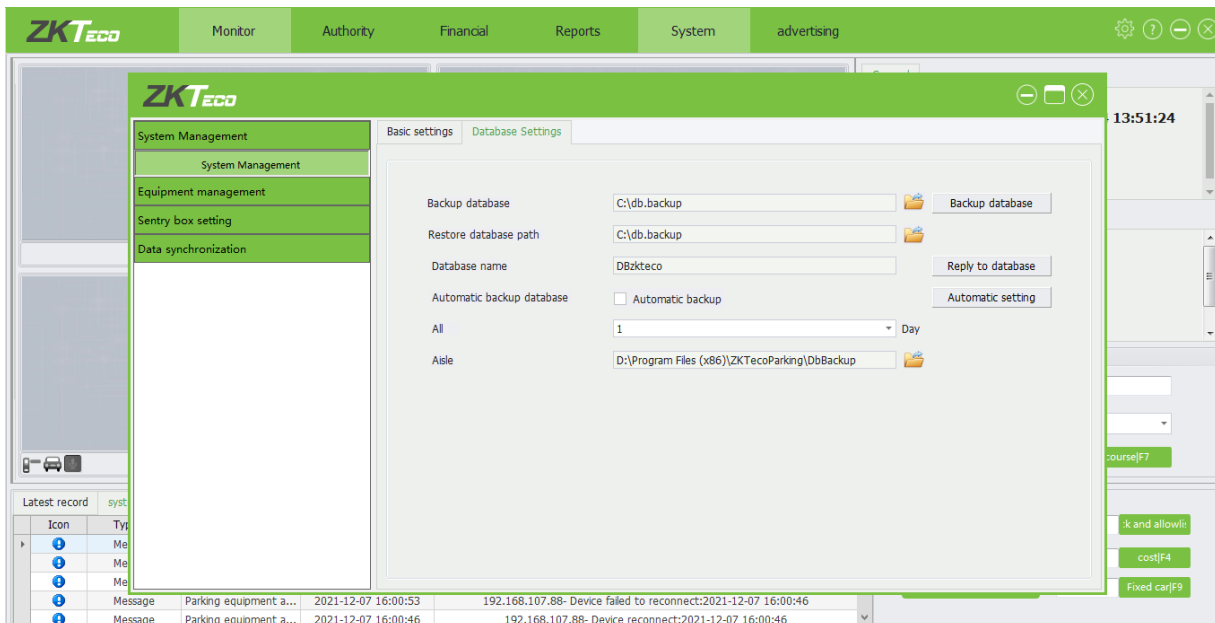
- **Temporary vehicle entrance and exit:** A provisional car can enter and exit the parking lot with no matched record required.
- **Enable fixed fare:** Specified rules must be followed during the authorization and renewal of a fixed car.
- **Enable consumer discounts:** If this item is selected, a discount is applied when a car exits the parking lot; otherwise, the parking expense is charged based on the original price.
- **Print coupons:** If this item is selected, the receipt is printed when a car exits the parking lot; otherwise, the receipt is not printed.

Ticket box setting:

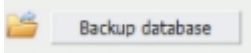

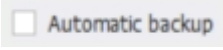
- **Enable small ticket mode:** Open ticket verification.
- **Paperless Automatic opening:** After setting, if there is no printing paper in the ticket dispenser, the barrier will open.
- **Print license plate:** Print license plate number.
- **Enable license plate recognition:** Turn on the license plate recognition function.
- **Print the receipt and opening the alarm if the car does not go after this time:** Set vehicle stay overtime alarm.
- **Ticket header content:** The contents of the entrance of the ticket dispenser.
- **Ticket tail content:** The contents of the exit of the ticket dispenser.



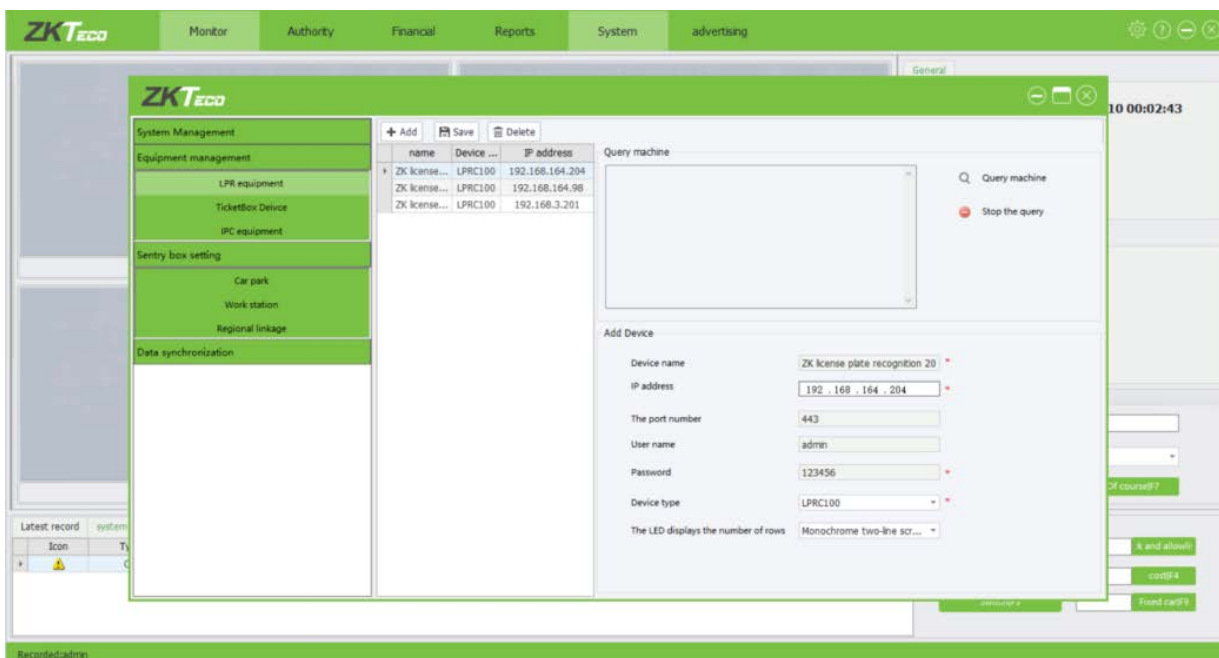
- **Vehicle limit start the type:** Set a fixed vehicle limit, after setting the corresponding vehicle will not allowed to pass.
- **Open and start on holidays:** Open holiday release, you could setting to Monday, Tuesday.
- **Quick release time:** After setting the opening time, the brakes will remain normally open during this period of time.






Database Settings:

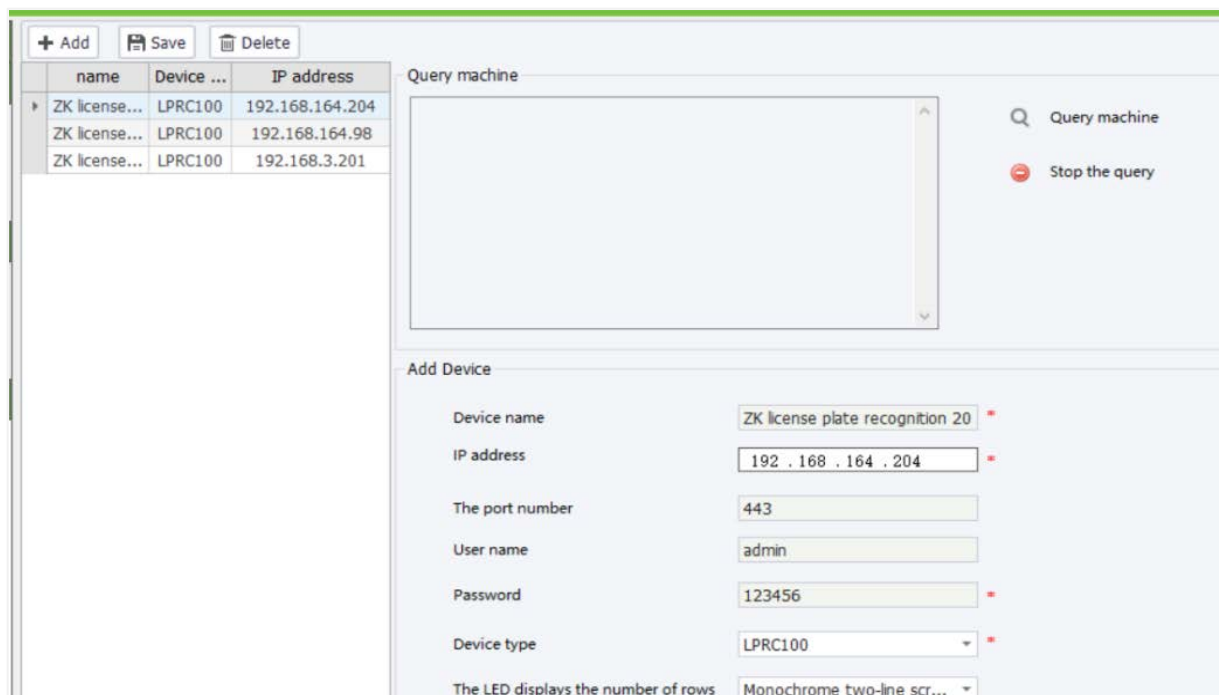
- Backup database:** You could click  backup the database.
- Restore database path:** You could click , then choose the database document to restore it.
- Database name:** Setting the database name for it.
- Automatic backup database:** If you click , the database will be automatic backup.
- All:** You could set the number of days for automatic backup.
- Aisle:** Automatic backup file path.


7.2 Equipment Management



7.2.1 Add LPR Equipment

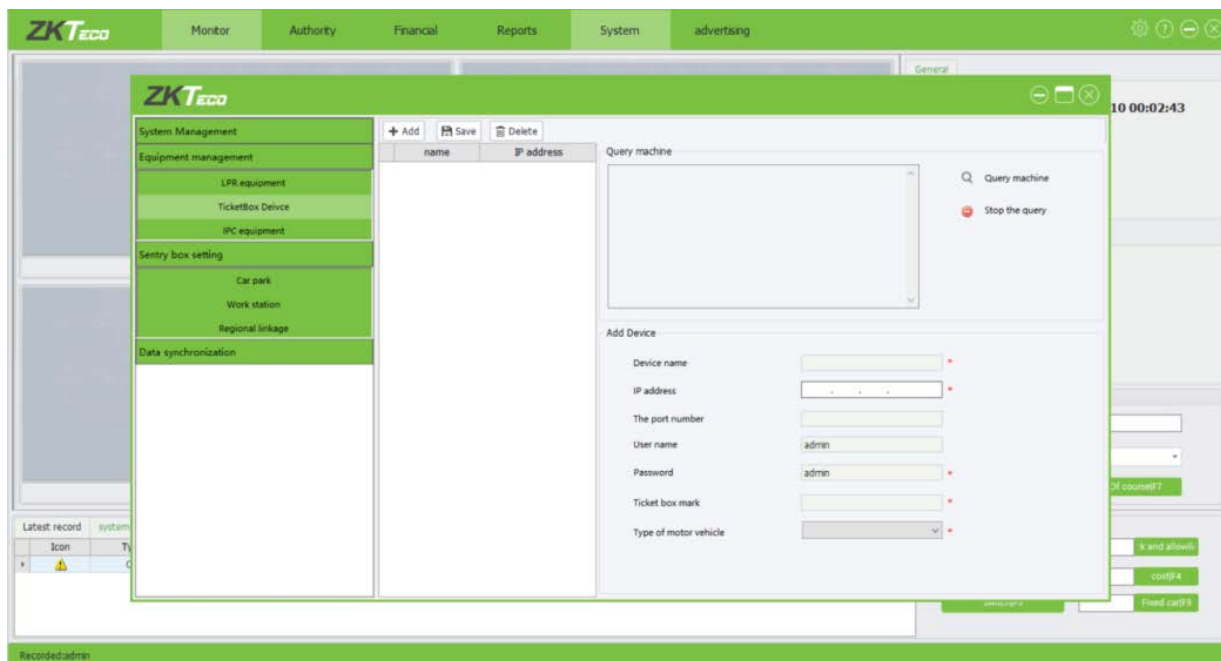
On the equipment settings interface, click  to access the device addition interface and set relevant information. Then click  to save the settings or click  to cancel the operation.



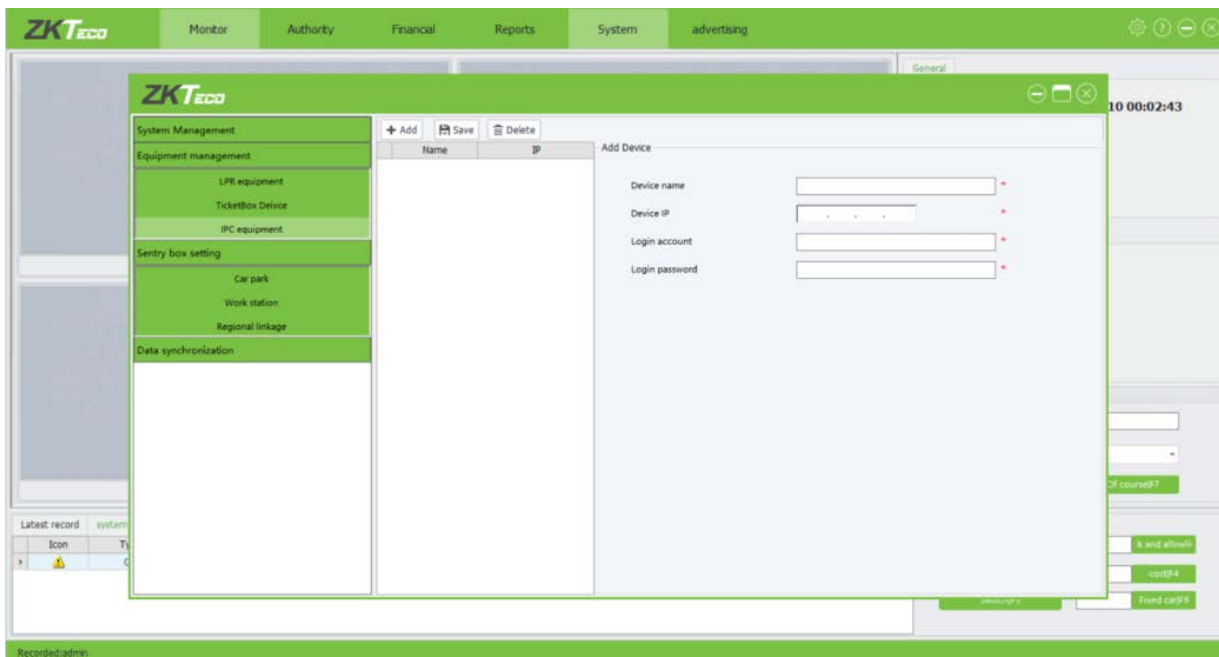
- **Device Name/IP Address:** Click  to search for devices and select a device. Then the device name and IP address are displayed in **Add Device**. The device information is mandatory and can also be manually entered.
- **The port number:** Device default port.
- **Username/Password:** Name/password of the camera.
- **Device Type:** Four value options are available: ZK license plate recognition, ZK park controllers, ZK license plate recognition 200 and ZK license plate recognition 300.
- **The LED displays the number of rows:** The Monochrome two-line screen is default.

7.2.2 Add a Ticket Box

The setting is the same as add a LPR equipment. For more information, please refer to [7.2.1 Adding LPR Equipment](#).



7.2.3 Add an IPC Device

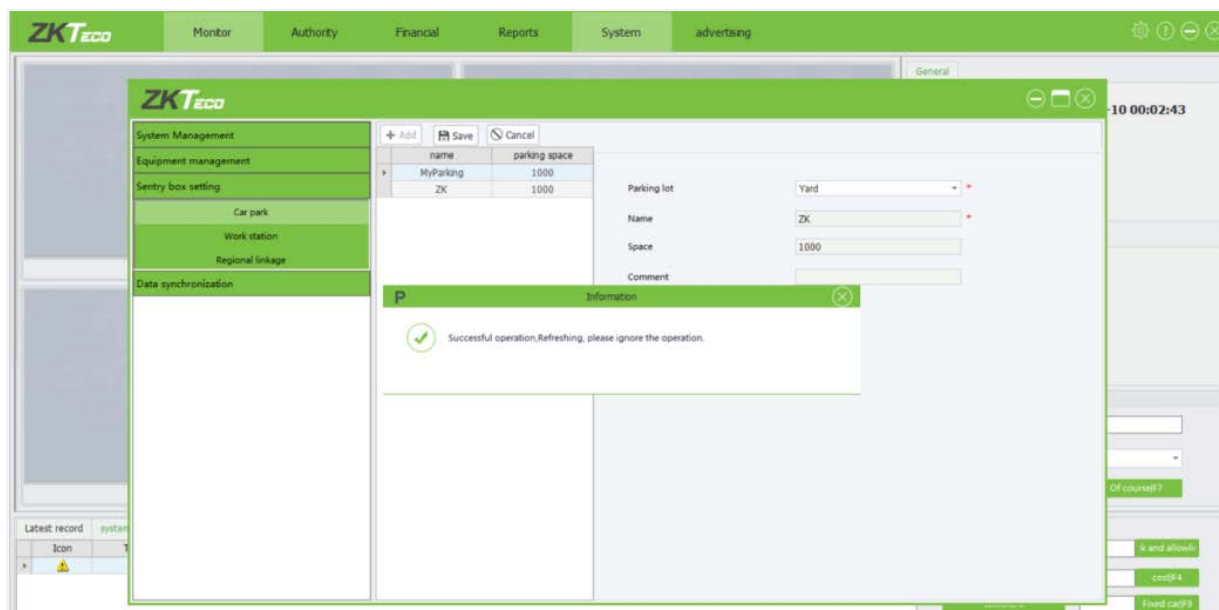


- **Device name:** Need to manually input the device name.
- **Device IP:** Need to manually input the device IP.
- **Login account/Password:** Account/password of the camera.

Note: The gateway for the IPC must be the same as the PC.

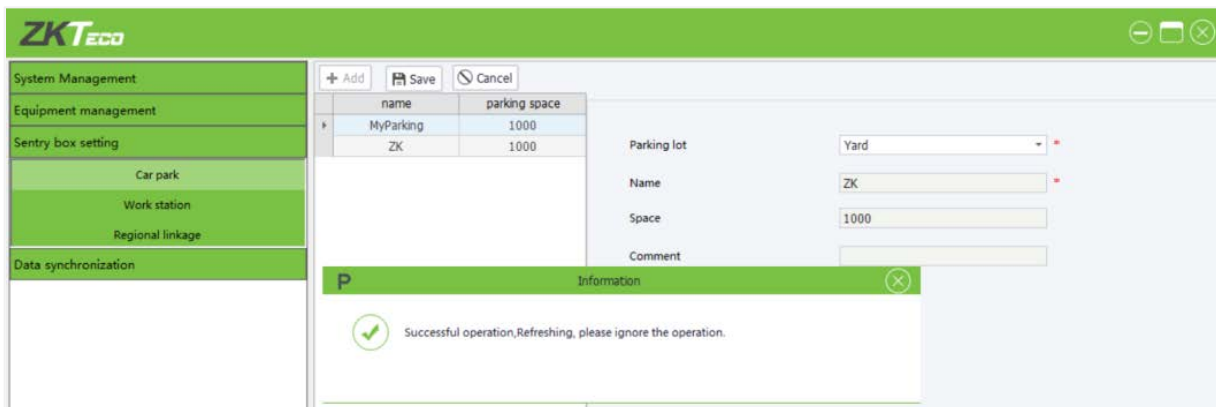
7.3 Sentry Box Setting

Click **[System]** → **[Sentry box setting]** to access Workstation settings interface.



7.3.1 Car Park

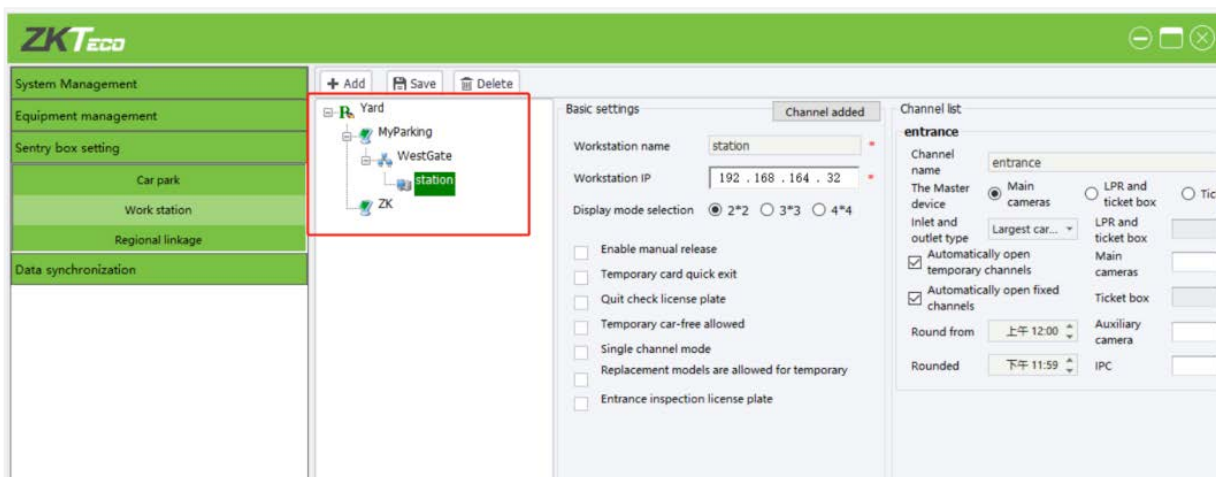
A parking lot has multiple parking areas. Click **[Sentry box setting]** → **[Car park]** to enter Parking Area settings interface, on which you can add, edit, and delete parking areas.





- **Parking Lot:** Parking lot of the parking area. The default value is Yard, which is the only value.
- **Name:** Name of the parking area. This field is mandatory.
- **Spaces:** Total number of parking spaces of this parking area.
- **Comments:** Description of the parking area. This field is optional.

7.3.2 Adding a Workstation

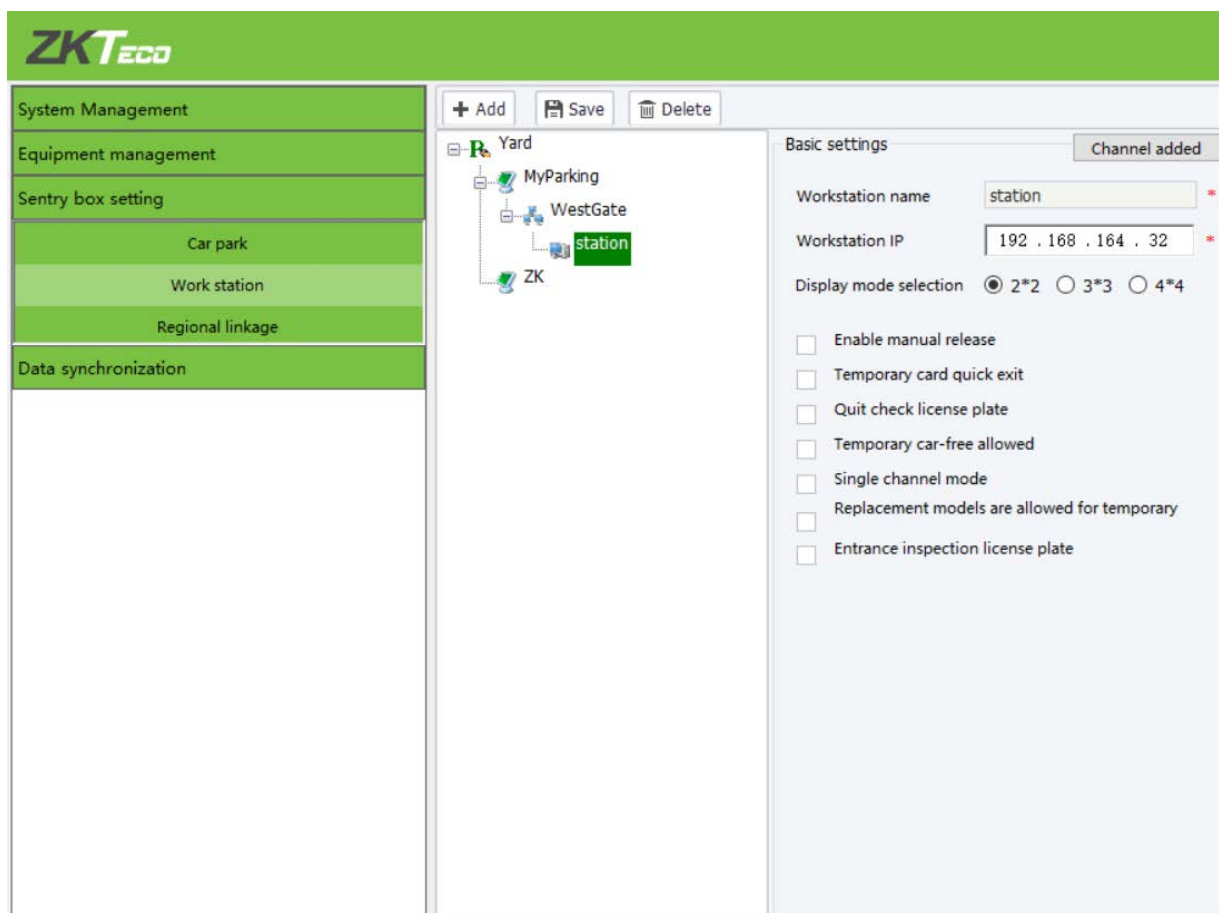
Select a parking area: On the left of the booth setup interface, select a parking area as the workstation of the device. A parking area must be added to Parking Area in advance.



Device added to: Click  to enter Device added to interface, input device name, for example, **[My Parking]** and then click .

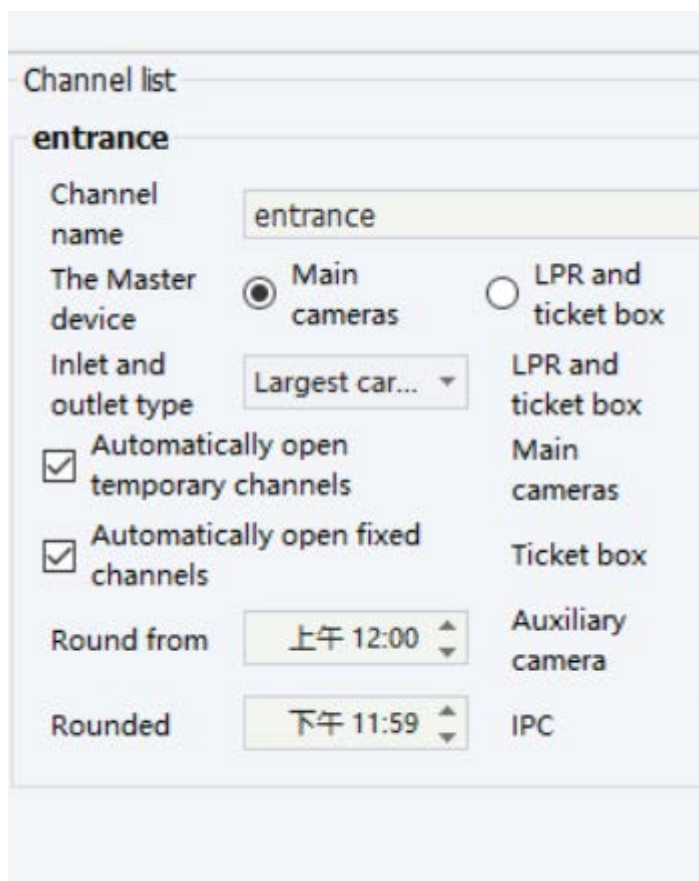
7.3.3 Workstation

Click **[Sentry box setting]** → **[Workstation]** to access Workstation settings interface:

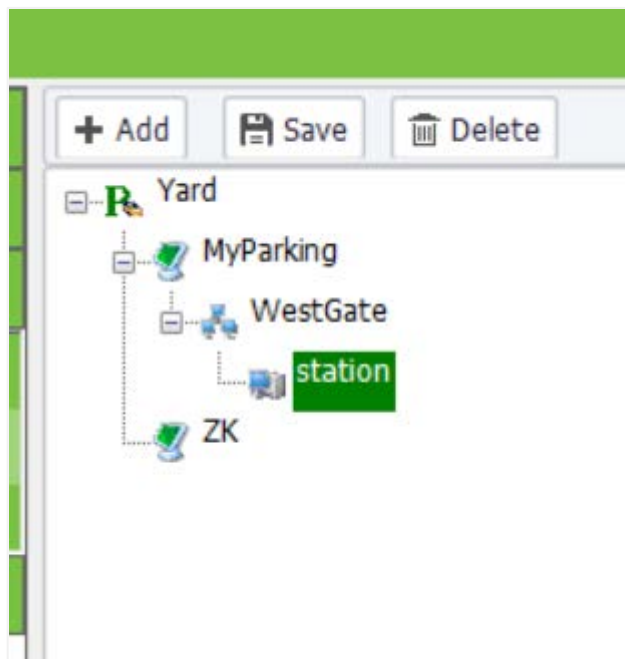


- **Workstation name:** Name of the workstation. This field is mandatory. The workstation name can be duplicate with other workstation names.
- **Workstation IP:** IP address of the workstation. This field is mandatory. You cannot specify multiple workstations for a single IP address.
- **Display mode selection:** Show monitoring windows.
- **Enables manual release:** If this item is selected, the boom barrier can be manually raised to allow cars to pass.
- **Temporary card quickly exit:** If a provisional car does not involve parking expenses, the charging confirmation interface is not displayed and the boom barrier is raised to allow the car to pass.
- **Quit check license plate:** If this item is selected, a car can exit the parking lot after its license plate is checked.
- **Temporary car-free allowed:** If this item is selected, the Free button is available on the provisional car charging interface to exempt the parking expenses of provisional cars.

- **Single channel mode:** If this item is selected, a channel is physically used as both the entrance and the exit. However, it is recommended that different logical channels be bound to different cameras.
- **Replacement models are allowed for temporary:** The car type can be changed for a provisional car on the provisional car charging interface. Different charging rules are applied for different car types and therefore the charging result changes accordingly.
- **Entrance check license plates:** If this item is selected, a car can enter the parking lot after its license plate is checked.



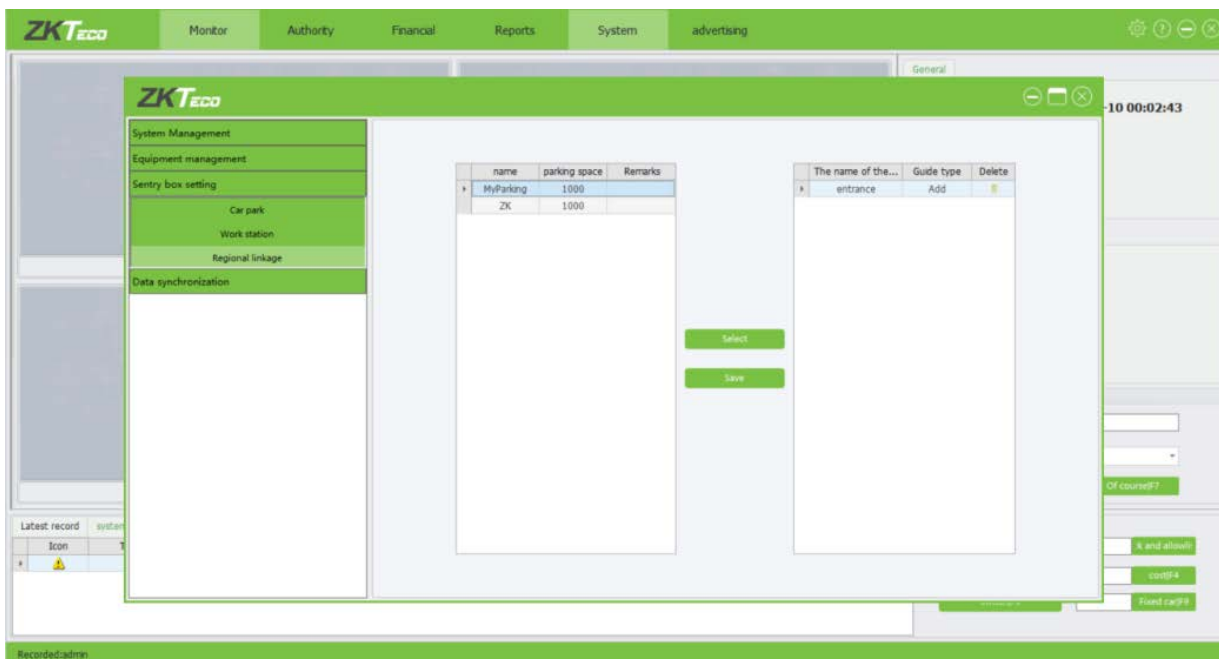
- **Channel name:** You can click the channel name to modify it. The default name is Entrance.
- **The master device:** You could choose the Main camera, LPR and ticket box, Ticket box.
- **Inlet and outlet types:** Select an access type from the drop-down list. The value options include largest car entrance, largest car exit, small car entrance, small car exit, central charging point and central change exit.
- **Automatic open temporary channels:** After this item is selected, the boom barrier is automatically raised when a car is identified as a provisional car.
- **Automatically open fixed channels:** After this item is selected, the boom barrier is automatically raised.
- **Round time:** Channel working time, the system does not run beyond the time range.



- **Equipment:** It refers to ZK park controllers. Select a value from the drop-down list. Park controllers must be added to Equipment in advance. For more information, please refer to [7.2.1 Add LPR Equipment](#).
- **Camera IP:** Select a value from the drop-down list. Devices must be added to Equipment in advance.
- **Camera:** Position that the main camera is displayed on the monitoring interface. After an IP address is set for the main camera, the default position of the main camera is 0, which means no position is selected. You can select a position from the drop-down list. The value options include 1, 2, 3, and 4.
- **Auxiliary camera IP:** Select a value from the drop-down list. Devices must be added to Equipment in advance.
- **Plate matching precision:** Match precision for identifying license plates. The default value is exact match. Other two value options are available: 6 and 5.
- **Set the enabled car model or a custom name:** Click, the following prompt will pop up, select the enabled car model. You can modify the car model name. Then click to save the settings. When the car model name is modified, it is synchronized to [Yards allowed entry model] on the interface.

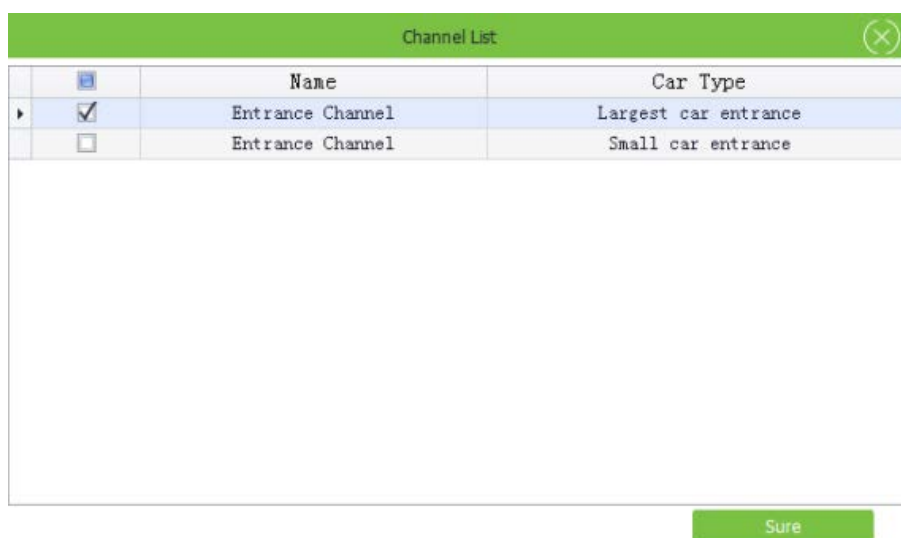
7.3.4 Regional Linkage

Region linkage setting involves setting the impact of car entry and exit on the number of parking spaces of the parking area. Click [**Terminal**] → [**Region Linkage**] to access Region Linkage settings interface:

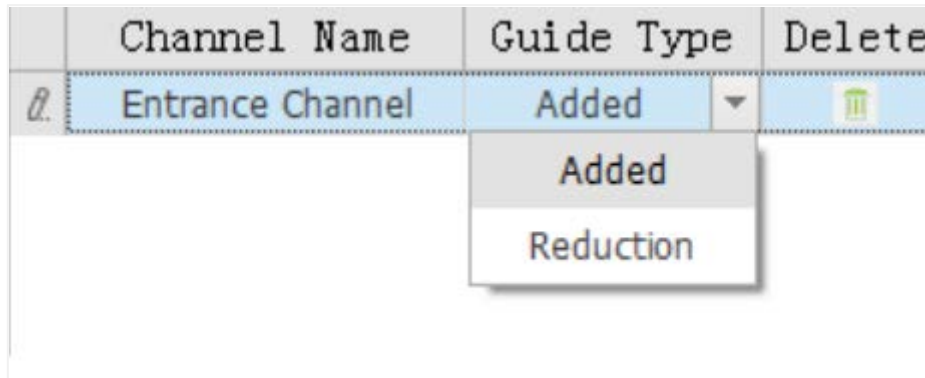


The process for adding a region linkage:

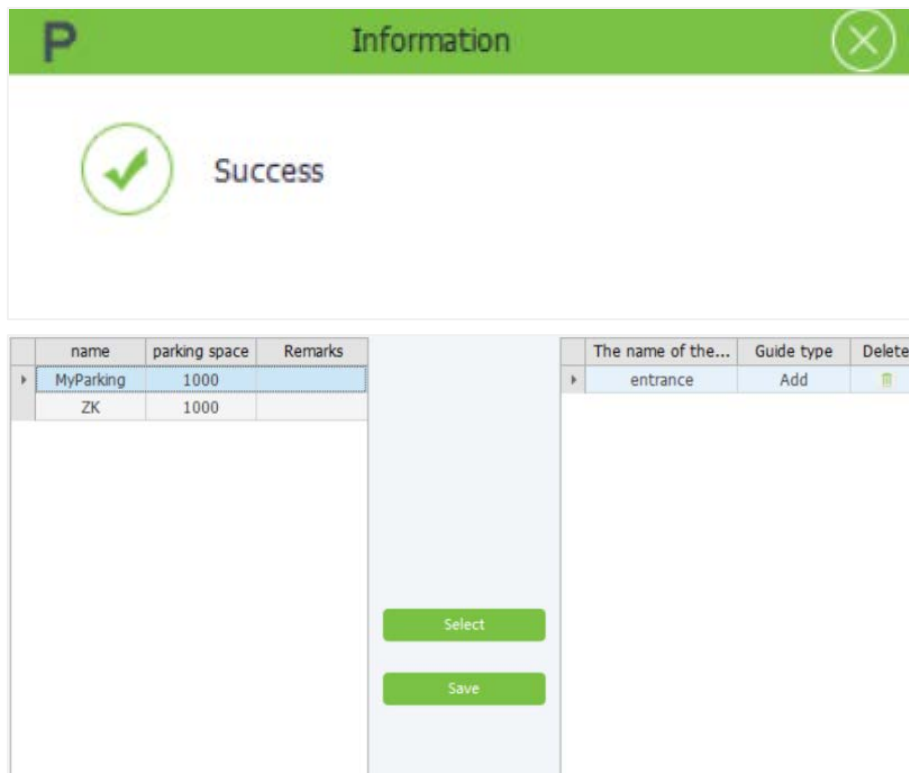
- Select a parking area:** On the left of the interface, select an area. A parking area must be added to Parking Area in advance. For more information, please refer to [7.3 Sentry box setting](#).
- Select a channel:** Then, click **Select**, select the required channel from the displayed channel list, and then click **Save**. Channels must be added to Workstation in advance. Channels must be added to Workstation in advance. For more information, please refer to [7.3.2 Adding a workstation](#).



- Set the guide type:** The selected channel will be displayed on the right of the interface. Click **Guide Type** and select an impact type from the drop-down list. The value options include Added and Reduction.



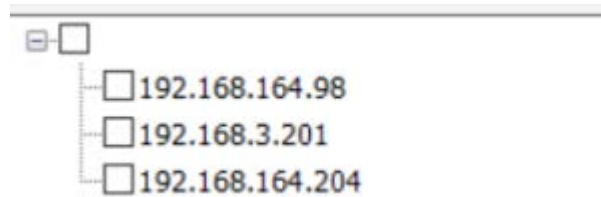
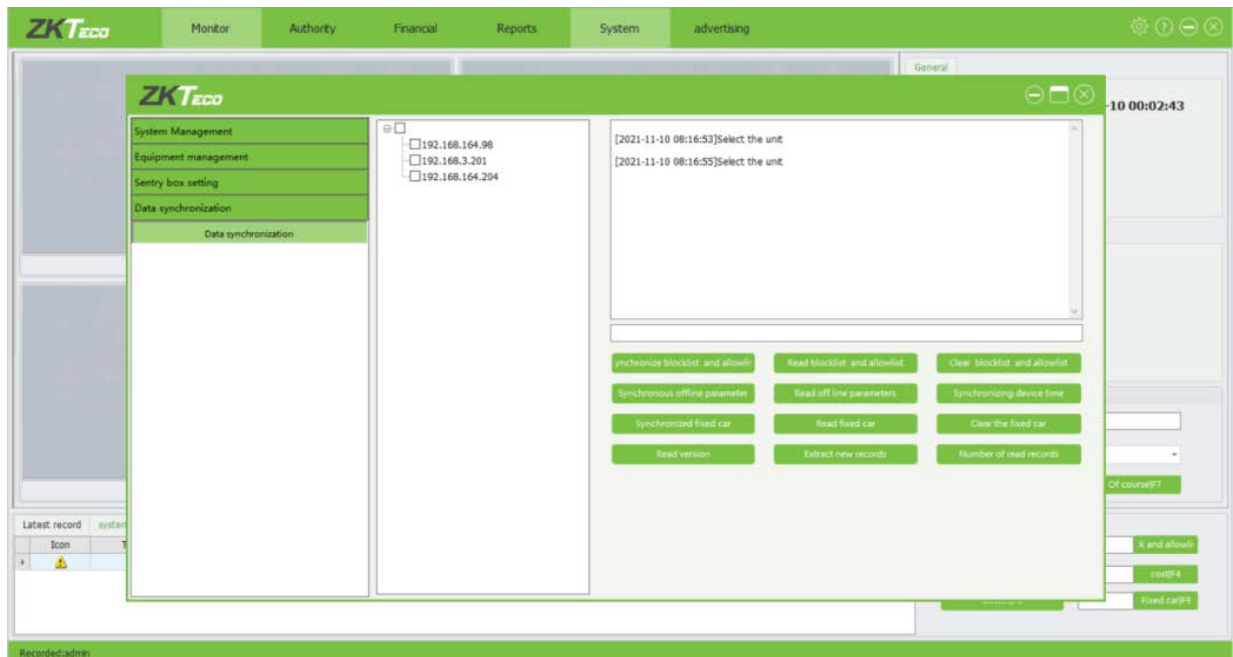
4. Click **Save** to save the setting.



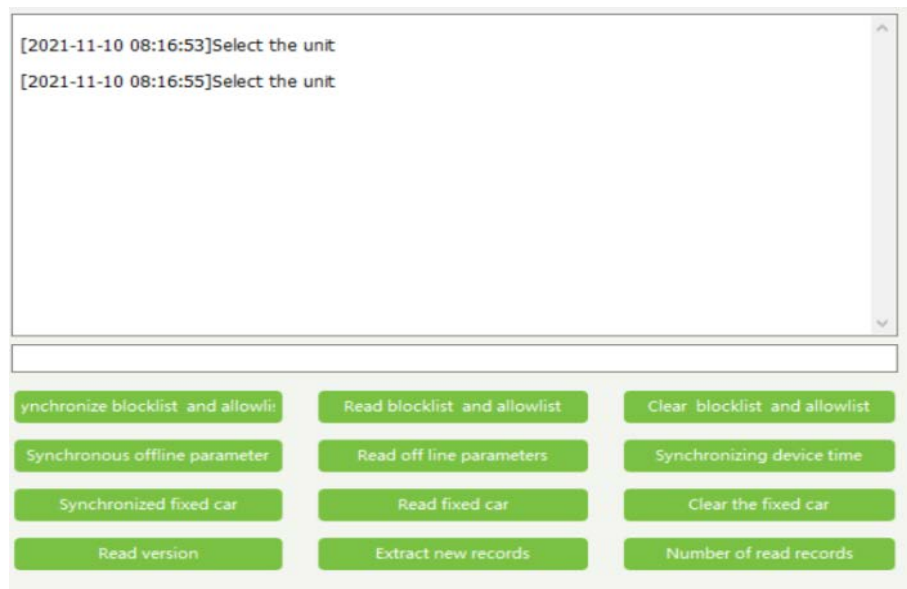
Note: Multiple region linkages can be added for a parking area.

5. **Editing a region linkage:** Select a region linkage to be edited, modify the guide type set in Step (3), "The process for adding a region linkage", then click **Saved**.
6. **Deleting a region linkage:** Select a region linkage to be deleted and click

7.4 Date Synchronization



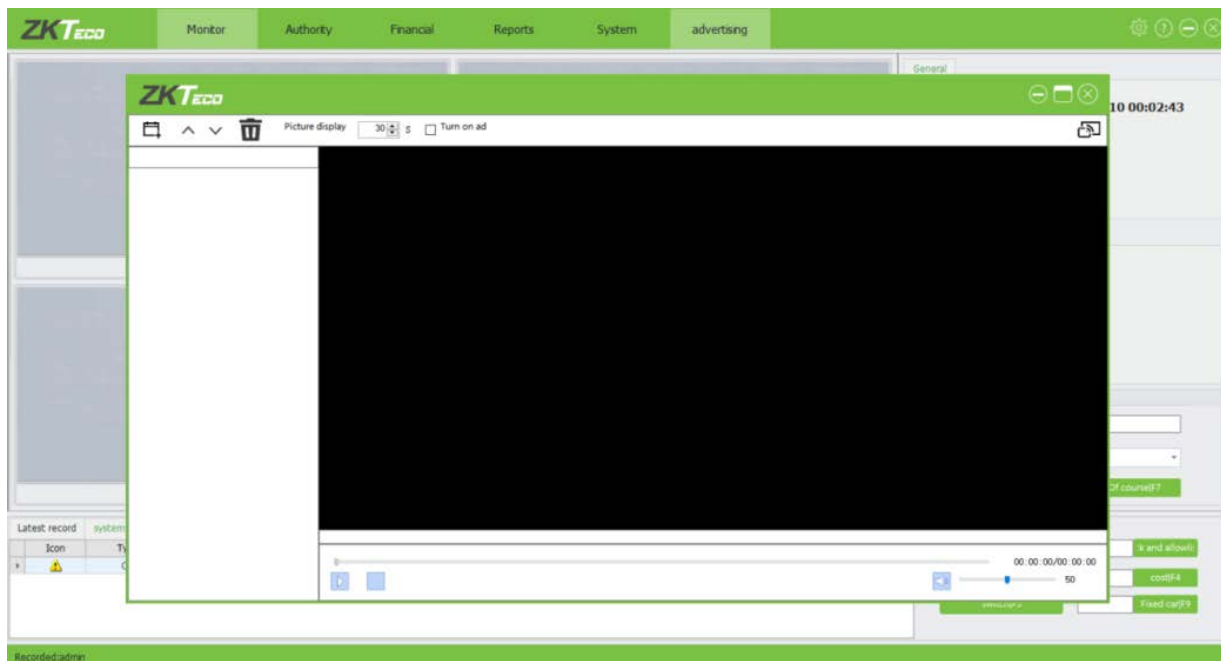
First choose the device, you could synchronize the information from the device or software.



- **Synchronize blocklist and allowlist:** Synchronize blocklist and allowlist from software to device.








- **Read blacklist and allowlist:** Read blacklist and allowlist from software to device.
- **Clear blacklist and allowlist:** Clear blacklist and allowlist for device.
- **Synchronous offline parameter:** Synchronous offline parameter from software to device.
- **Read offline parameters:** Read offline parameters from software to device.
- **Synchronizing device time:** Synchronizing time from computer.
- **Synchronized fixed car:** Synchronized fixed car from software to device.
- **Read fixed car:** Read fixed car from software.
- **Clear the fixed car:** Clear the fixed car. From software.
- **Read version:** Read version from device.
- **Extract news records:** Extract news records from device.
- **Number of read record:** Number of read record from device.

8 Advertisement



In this interface, you could set the video to play on screen.



Click  to add the video, only MP4 format is supported by default, click  Up or down advertising. Click  to delete the video. Click  to set ad playing time. Click Turn on ad to turn on or turn off the ad. Click  to send the video to display screen. Click  to stop or run the video. Click  to adjust the volume.

Note: The advertisement is displayed on the external display not the ticket dispenser.

9 Appendix

9.1 Date Setting

The following is an example of setting the birthday of an added employee.


Click ▼ next to Birthday. The date panel is displayed, as shown in the figure below:

The screenshot shows a web application interface for employee management. At the top, there are buttons for '+ New', 'Save', 'Delete', 'Import', and 'Export'. Below these are tabs for 'Basic Settings' and 'License Number'. The 'Basic Information' section contains several input fields: 'Emp Number', 'First Name', 'Last Name', 'Emp Department' (a dropdown menu), 'Emp Gender' (a dropdown menu), 'Password', 'ECP Phone', and 'Email'. A 'Birthday' field is highlighted with a green box and contains the date '2017-01-05'. A calendar dropdown is open, showing 'Friday, June 09, 2017' and a calendar for 'January, 2017'. The calendar grid shows dates from 25 to 31, with the 5th of January highlighted. To the right of the form is a large image placeholder labeled '(200*200)' with the text 'No image data' and icons for file upload and deletion.


Note: The current date is selected by default.

Click  to select the month, or double-click the month column and select the month.



Click  to select the year, or double-click the year column and select the year.



Click  to select the year range, or double-click the year range column and select the year range.



Note: Click the date on the top to return to the current date.



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